

THE FLORIDA SENATE

SELECT COMMITTEE ON PROPERTY INSURANCE ACCOUNTABILITY

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TALLAHASSEE, FLORIDA

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REPORTED BY:  
CHRISTI K. COLE  
COURT REPORTER

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PREMIER REPORTING  
112 WEST 5TH AVENUE  
TALLAHASSEE, FLORIDA  
(850) 894-0828

APPEARANCES:

SENATOR ATWATER, CO-CHAIR

SENATOR GELLER, CO-CHAIR

SENATOR POSEY, VICE CHAIR

SENATOR ALEXANDER

SENATOR BENNETT

SENATOR BAKER

SENATOR DAWSON

SENATOR DEUTCH

SENATOR DIAZ LA PORTILLA

SENATOR FASANO

SENATOR GATEZ

SENATOR JOYNER

SENATOR LAWSON

SENATOR PEADEN

SENATOR RING

SENATOR SAUNDERS

SENATOR STORMS

1 P R O C E E D I N G S

2 MS. JARVIS: The quorum is present,  
3 Mr. Chairman.

4 THE CHAIRMAN: Thank you. Members, we are on  
5 a very tight time schedule today. We have  
6 approximately three hours left, and we will be  
7 hearing three presentations today.

8 Today we have invited an expert on reinsurance  
9 that will be our first speaker that was recommended  
10 to us from OIR, Mr. Paul Walther with Reinsurance  
11 Directions, and I will be introducing him  
12 momentarily. We will then have a panel of  
13 representatives of the Florida Commission on  
14 Hurricane Loss Projection Methodology.

15 As you-all will recall, there were a lot of  
16 questions on that at the last meeting. The Florida  
17 Commission on Hurricane Loss Projection Methodology  
18 is the state commission that reviews and approves  
19 hurricane loss projection models for use by  
20 insurers in rate filings and for establishing the  
21 rates charged by the Florida Hurricane Catastrophe  
22 Fund. You will again recall the substantial  
23 discussion on the use of approved versus unapproved  
24 models.

25 The last panel will include representatives of

1 AIR Worldwide Corporation, which is one of the  
2 leading private modeling companies. We, again,  
3 have a court reporter today transcribing this  
4 meeting -- hi, Court Reporter -- and all testimony  
5 will be under oath.

6 Again, Mr. Paul Walther of -- CEO of  
7 Reinsurance Directions will be here now providing  
8 additional information to the Committee about the  
9 private reinsurance market. The Office of  
10 Insurance Regulation has engaged Mr. Walther to  
11 assist them and their contract actuary, Robert  
12 Hunter, in preparing the Presumed Factor Report for  
13 insurers to make rate filings reflecting the  
14 savings of the expanded Cat Fund coverage provided  
15 by House Bill 1A. And, again, we are -- we will  
16 have been told about a general softening in the  
17 reinsurance market, which Mr. Walter will be able  
18 to testify on.

19 Tab 1 of your yellow packet contains  
20 background information on Mr. Walther and an  
21 outline of his presentation so that you will be  
22 able to follow along.

23 Tab 2 contains various articles and reports on  
24 the state of the reinsurance market, which our  
25 staff has included and is provided to Mr. Walter

1 for his reference. Again, we are not making any  
2 warranties that our staff has caught every article.  
3 We believe that these are representative samples of  
4 the articles.

5 We would like to welcome Mr. Walther here  
6 today. Mr. Walther, since we are taking all of our  
7 testimony under oath, are you prepared to testify  
8 under oath today?

9 MR. WALTHER: Yes, I am.

10 THE CHAIRMAN: Okay, sir. Please raise your  
11 right hand.

12 \* \* \*

13 Thereupon,

14 PAUL WALTHER  
15 was called, having been first duly sworn, was examined  
16 and testified as follows:

17 THE CHAIRMAN: The witness's answers shall be  
18 noted in the record.

19 Mr. Walther, again, sir, we really appreciate  
20 your being here today. You're recognized, sir.

21 MR. WALTHER: Thank you, Mr. Chairman and  
22 Committee. I'm delighted to be here. My apologies  
23 for having to delay my appearance due to a health  
24 problem, which I'm pleased to say is cleared up and  
25 I'm back to normal.

1           In any event, the purpose, as I understand it,  
2       for the discussion today is to give the Committee a  
3       sense of what reinsurance is all about, how the  
4       game is played. I tend to speak rather quickly. I  
5       understand that we do have a tight timeframe, so I  
6       will try to move along as quickly as I can, saving  
7       time at the end for questions.

8           For the most part it's quite clear, generally  
9       speaking, that oftentimes the reinsurance tail wags  
10      the insurance dog. The prices charged for  
11      reinsurance in the marketplace are often passed  
12      right along in some fashion or other to the  
13      insurance consumer by virtue of the insurance rates  
14      that they are required to pay.

15          So basically my comments here today will deal  
16      with my role with the OIR and the Department,  
17      including the presumed factor responsibility that I  
18      had last year, as well as to give you a sense of  
19      really what this market is doing, including some  
20      options that may already be considered and may be  
21      considered going forward as ways in which to  
22      mitigate the crisis that we face in our state.

23          Insofar as my personal credentials, I won't  
24      dwell on those. You have in front of you,  
25      hopefully, my resume. Suffice it to say that I've

1 spent more than actually 45 years now in the  
2 business, the first 3 and a half as a broker, the  
3 next 20-plus as a reinsurance underwriter, the  
4 person who actually takes reinsurance risk. And  
5 also I was involved during that period of time with  
6 placing reinsurance. The last 20 years have been  
7 as a reinsurance consultant, and the last 10 of  
8 those years I have had my own firm, established,  
9 again, about 10 years ago.

10 With regard to my involvement with the OIR, I  
11 am pleased to say that over those past 20 years  
12 I've been involved in various projects, including  
13 reinsurance collections, the collections by an  
14 insurance company of the proceeds from their  
15 reinsurers to pay losses.

16 I've also been privileged to be involved in  
17 contract analysis, to review contracts that may be  
18 questionable by the OIR, or the Insurance  
19 Department at that time, with regard to  
20 transferring risk, which is really what insurance  
21 and reinsurance is all about, and the degree to  
22 which risk was transferred under certain  
23 questionable reinsurance contracts. I've also been  
24 privileged to deliver several seminar presentations  
25 to the OIR and the staff, and I've been delighted,

1 again, with the reception of those.

2 THE CHAIRMAN: If this were a court hearing I  
3 would now say, as a judge, we accept you as an  
4 expert witness.

5 MR. WALTHER: Thank you, sir. I think it's  
6 important, a couple years ago, to mention that I  
7 was involved, on behalf of the OIR, to evaluate the  
8 ability of several Florida companies to withstand,  
9 by way of reinsurance, a one-in-100-year storm. So  
10 that basically was a review, again, of the security  
11 provided by those insurance companies by virtue of  
12 their reinsurance programs.

13 I know that what's most important to this  
14 committee is the presumed factor effort that took  
15 place last year. And basically my role in that  
16 effort was to assist Bob Hunter, be a member of his  
17 team, in determining as best we could the  
18 difference between what the private reinsurance  
19 sector would charge versus the savings that would  
20 be gleaned from the reinsurance provided by the  
21 expanded Florida Catastrophe Fund.

22 Basically, my role in that regard was to  
23 analyze roughly 10, 12 reinsurance programs,  
24 including the contracts that made up those  
25 programs, and determine, again, what those costs



1        were in relation to what was being charged by the  
2        Cat Fund. The focus there was to provide  
3        Mr. Hunter and the OIR with an assessment of the  
4        pricing, again, of the private sector contracts.

5            The information provided from my analysis then  
6        sort of went into the mill, compared to the prices  
7        charged by the Cat Fund, and then related to the  
8        insurance pricing that went out to the consumer.  
9        So, again, my role pretty much was dedicated to  
10       helping the OIR determine exactly what the price  
11       was for equivalent coverage provided by the private  
12       sector and similar coverage that -- where there  
13       could be savings, again, in the public sector  
14       through the Florida Cat Fund.

15           THE CHAIRMAN: Mr. Walther, were you able to  
16       obtain all of the information you needed to get an  
17       accurate evaluation?

18           MR. WALTHER: I believe so. The sampling  
19       was -- you know, there is a question as to, I  
20       guess, the validity of the sample. There were, I  
21       want to say, roughly ten or twelve companies, and  
22       these companies, within the context of their  
23       program, you know, had anywhere from four or five,  
24       six contracts that would have been impacted by the  
25       expansion of the Cat Fund. So I feel that the

1 cooperation was excellent. I think the team did a  
2 yeoman's service, Mr. Hunter particularly, and I  
3 was privileged to, again, serve in the role that I  
4 did.

5 Now, with regard to expectations coming out of  
6 that effort, I mean, basically the charge was,  
7 okay, what would the savings be on an equivalent  
8 basis? And we tried to determine that. And I  
9 think that the result was that, all things  
10 considered, it looked to be roughly a 20 percent  
11 savings to the Florida consumer which somehow would  
12 be filtered through the rating process and impacted  
13 in the various -- you know, by the various  
14 component rates of an insurance policy.

15 Again, I think it was legitimate to say that,  
16 yes, if the insurance company bought equivalent  
17 reinsurance from the Cat Fund on the same basis,  
18 there would be a savings. You know, whether it  
19 ended up truly to be 20 percent in each case  
20 remained to be seen; and, of course, there were the  
21 true-up efforts, you know, to demonstrate by which  
22 the insurance companies could demonstrate whether  
23 or not the savings were there or not.

24 Well, what happened? I mean, clearly, you  
25 know, the Governor was concerned and is concerned

1 about the fact that the savings have not trickled  
2 down to the Florida consumer. And why is that?  
3 The reason for that -- and I should tell you that  
4 the insurance industry -- or I should say the  
5 reinsurance industry at the time, was quite  
6 concerned that by switching an insurance company's  
7 allegiance from the private sector to the public  
8 sector, or to the Cat Fund, that the loss to the  
9 industry would be in the range of \$2 billion.

10 As it's happened, that hasn't been the case.  
11 They have suffered, if that's the right word, far  
12 less of a premium or top-line reduction in the  
13 premium flow to the reinsurance market, which,  
14 quite frankly, I think is one of the reasons for  
15 concern that Governor Crist has expressed.

16 What happened was that, yes, the insurance  
17 companies were and are required to buy reinsurance  
18 again from the Cat Fund in various percentage  
19 levels. But insurance companies being, you know,  
20 in some cases, risk adverse, were concerned about  
21 the ability to recover from the Cat Fund.

22 But more than that, I think the main issue  
23 there was whether or not the Cat Fund truly  
24 provided the insurance companies with the  
25 protection and the security that the insurance

1 companies needed and their policyholders needed in  
2 the event of significant wind storms. And by that  
3 I mean to say that it's one thing for a company to  
4 buy a coverage, if you will, \$12 billion, \$25  
5 billion, whatever the coverage is, for a single  
6 event, but what happens if there is more than one?

7 And as long as I've been in the reinsurance  
8 business, and particularly in my underwriting days,  
9 I was always afraid of not one, but two or three or  
10 four. And clearly, you know, in 2005, you had the  
11 Gulf Coast storms; and in 2004 you had obviously  
12 four storms, you know, three of which crisscrossed  
13 Orlando where I live, and here I thought we were  
14 immune.

15 But, in any event, the point is that the Cat  
16 Fund is, in my view, a very critical cog in the  
17 Florida protection wheel, as is Citizens. But the  
18 Cat Fund has limitations. It's a bit of a  
19 complicated structure. It also has a limitation  
20 with regard to obviously the amount of coverage  
21 that they can provide on an aggregate, in other  
22 words, on an annual basis, versus on a single-storm  
23 basis.

24 So, again, what happened? The insurance  
25 companies looked at the savings that they realized,

1 and they did realize savings, I'm sure, in terms of  
2 buying Cat Fund coverage over the private sector  
3 coverage. But then they had to take a second look  
4 at the security, at the pressures applied to the  
5 insurance company by the rating agencies, by the  
6 regulators in order to maintain the security by  
7 which to pay and live up to the obligations to  
8 their policyholders.

9 And so what they decided to do, generally  
10 speaking, is, okay, we appreciate the coverage, but  
11 we need more; we need either, you know, a second  
12 event, third event, fourth event coverage, or we  
13 need more up top or more down low. And I'm not  
14 about to stand here and tell you what an individual  
15 insurance company believes it needs, why it needs  
16 it and why it does what it does, but it has to look  
17 at top line and bottom line, and it has to, again,  
18 be conscious of the security it provides, you know,  
19 again, to the Florida consumer.

20 And, you know, without the security there,  
21 regardless of how much is saved at the opening  
22 bell, it doesn't make a hill of beans of difference  
23 if the money isn't there to pay the claims at the  
24 end of the day.

25 Basically, the reinsurance process, just

1 getting into just a brief overview of the business  
2 itself, the insurance company buys reinsurance to  
3 transfer its own risk, to hedge its bets. It needs  
4 to spread its risks. It also needs to provide  
5 capacity for its consumers.

6 To some degree, a small insurance company with  
7 \$30, \$40, \$50 million worth of capital, you know,  
8 can't write maybe the high-rise condominiums or the  
9 commercial risks that it could otherwise do if it  
10 were to lay off some of that risk to the  
11 reinsurance sector. Again, this is not something  
12 that the Cat Fund is concerned about, but it,  
13 again, is one of the purposes of reinsurance.

14 It looks at reinsurance as a loss-leveling  
15 vehicle. It looks at reinsurance to provide  
16 coverage for not only the horrendous loss, the big  
17 hurricane, but the frequency of smaller storms  
18 which may not be covered by the Cat Fund.

19 So you have a situation where you have  
20 tropical fronts coming through here from time to  
21 time; you have the tornados; you have fires; you  
22 have all kinds of things affecting our state that  
23 don't lend themselves necessarily to coverage by  
24 the Cat Fund, and it prompts the insurance  
25 companies, you know, to look elsewhere and look

1 into the private sector to make sure that their  
2 balance sheets are protected and the security is  
3 provided to the Florida consumer.

4 In addition, you know, an insurance company  
5 also looks at the reinsurers to help it from time  
6 to time, you know, to write different risks from  
7 what it might normally write.

8 But the main thing, of course, and what's near  
9 and dear to the hearts of all of us and those of us  
10 who live in this state, is catastrophe protection.  
11 What is going to happen when we have the next big  
12 one, two, three, four, and is there enough money  
13 out there, regardless whether it's the Cat Fund or  
14 the private sector, to cover the big one to come  
15 into Miami and to Tampa, and heaven forbid any of  
16 that happens any time soon.

17 I think what's important for me to mention to  
18 this committee is that we're dealing with a  
19 risk-spreading mechanism, sort of the law of large  
20 numbers. Well, the law of large numbers means that  
21 collection of premiums from the many to pay the  
22 losses of the few. It doesn't necessarily mean the  
23 collection of the premiums from the many, you know,  
24 to pay the losses of the many. But in a way that's  
25 sort of what we have in our state with regard to

1 Citizens, you know, the pressures applied by  
2 Citizens and the Cat Fund.

3 Now, I'm not going to stand here and tell you  
4 that we don't need either one of those markets. We  
5 surely do. They serve a very, very valuable  
6 purpose to all of us. The question at the end of  
7 the day, though, is whether their market is a first  
8 resort or last resort, and I think we need to deal  
9 with that.

10 Insofar as the reinsurance contracts and  
11 programs are concerned, they run the gamut of being  
12 very simple, a situation where a loss, for example,  
13 of \$20 million is payable if the loss exceeds \$10  
14 million dollar. In other words, if the loss is  
15 into the marketplace, or a company suffers a loss  
16 of \$10 million, it may be able to cope with \$10  
17 million, but it can't cope with 30, so it buys  
18 cover of \$20 million, excess of \$10 million, and it  
19 generally pays a flat fee for that. And the fee is  
20 generally based and geared to the premium in  
21 relation to the amount of limits that's provided.  
22 And, again, it's a very simple process.

23 We do then move into areas to expand capacity  
24 which are financial in nature. And we'll deal more  
25 with that a little later. But it's important for



1 each of you to know that within each program,  
2 depending on the size of the insurance company, you  
3 may have multiple contracts with multiple  
4 reinsurers and multiple brokers. The point being  
5 is that the programs -- the individual contracts  
6 might be very simple, but the programs themselves  
7 may end up being very complex by virtue of the way  
8 in which the various contracts interact with each  
9 other.

10 There's also something called traditional  
11 versus non-traditional reinsurance. Traditional  
12 reinsurance basically is a situation, just to  
13 follow the train, where a consumer buys insurance  
14 through his agent sought from State Farm. They buy  
15 insurance through an agent, the agent places that  
16 insurance with an insurance company. That  
17 insurance company then needs reinsurance. So where  
18 does it go? It will go to its reinsurance broker  
19 or its agent and seeks to have that agent place its  
20 reinsurance with the worldwide reinsurance  
21 marketplace or with broker-oriented markets. You  
22 do have in business, as well, a State Farm sort of  
23 composition where certain companies will do  
24 business directly, you know, again, with the  
25 insurance carriers.

1           So you have -- again, there are a variety of  
2           different ways, you know, to skin the cat, and each  
3           company will look at its program, discuss those  
4           programs with its agents, you know, and its brokers  
5           to try to determine how best to shape its policy.

6           Now, one of the issues that is going to be  
7           addressed later on this morning has to do with  
8           modeling. And modeling in recent times and maybe  
9           the last, I don't know, five, ten years has been  
10          extremely critical to enable the insurance and the  
11          reinsurance companies to determine its exposures,  
12          its exposures in a one-in-100-year storm, a  
13          one-in-250 storm, and the like.

14          There, as we all know, are a goodly number of  
15          modeling agencies, as there are reinsurers and  
16          reinsurance intermediaries; and the proof in the  
17          pudding, I guess, at the end of the day is how  
18          viable these estimates are. And the proof, again,  
19          is from the Andrews and the Katrinas of the world  
20          in terms of how close the modelers come to  
21          analyzing the losses that might be anticipated from  
22          the exposure level.

23          But with regard to the reinsurance community,  
24          I would tell you that there is, from my experience  
25          and general knowledge, there is no one particular

1 model that does it all. I know there's one major  
2 reinsurance market in Bermuda that takes several  
3 different models and makes its own to determine,  
4 again, where its exposures are. But I guess the  
5 question at the end of the day when you really get  
6 right down to it is, okay, what does a reinsurer do  
7 with its model?

8 And the reinsurer is going to look at its  
9 model and determine, ah-ha, well, this company has  
10 exposure in Florida, in Miami and Dade County, over  
11 in Tampa, and we're going to look at this and we're  
12 going to determine whether it's primarily a Florida  
13 company, and if so, we're going to rate this  
14 company accordingly.

15 So they do pay close attention to where the  
16 exposures are. And once they determine where the  
17 exposures are, they will price the reinsurance  
18 contract accordingly, looking to basically relate  
19 the premium to the exposure and the coverage that  
20 they provide.

21 You've heard maybe a few things -- you know, a  
22 few comments from time to time on as respects  
23 rate-on-line, which basically is the percent by  
24 which a premium, you know, bears the percent of  
25 premium in relation to the coverage length. And

1 basically the higher that relationship, basically  
2 the less risk the reinsurer is theoretically taking  
3 by assuming that contract.

4 But there's also another phrase that maybe you  
5 haven't heard, and that's sort of the -- another  
6 way for reinsurers to view their exposure in the  
7 event of loss, and that's payback. How many years  
8 is it going to take to pay back a loss? And so  
9 basically you reverse the equation and you have --  
10 the numerator becomes the amount of capacity, the  
11 coverage provided, and the denominator is the  
12 amount of the premium.

13 Now, one thing that's important for you to  
14 know is that there's something called a  
15 reinstatement premium that gets played into the mix  
16 that basically, it's my understanding -- that the  
17 Florida Cat Fund doesn't have. And it's just as  
18 well, because there was one contract, as a for  
19 instance, to give you some idea why there was every  
20 good reason for, you know, the Legislature's  
21 concern last year for this problem, is if you  
22 have -- the insurance company was faced with a  
23 need, you know, to buy coverage, to buy  
24 reinsurance, to buy adequate reinsurance, to make  
25 sure that it lived up to the security expectations

1 of the OIR.

2 So among the contracts that I've evaluated  
3 over the past couple of years was one contract --  
4 just to give you a sense of how bad it gets and can  
5 get, we had a situation where there was a contract  
6 that provided a limit of \$45 million. And I don't  
7 remember the retention. The price for that  
8 contract was \$22 and a half million, so basically a  
9 payback of one year or two years. But built into  
10 that program -- and that contract was a  
11 reinstatement premium.

12 So even if, you know, you have a situation  
13 where the first limit is one storm that exhausts  
14 the \$45 million, you know, limit, immediately the  
15 insurance company has to pay a second premium which  
16 basically wipes out the loss, you know, at least  
17 insofar as that first loss, without the reinsurer  
18 paying a dime, in effect, but for the fact that the  
19 reinsurer pays the reinsurance broker 10 percent of  
20 that money.

21 And that's what's sort of interesting to me,  
22 and we will address that in a second, is the fact  
23 that in the traditional market these basic  
24 contracts have remained pretty much stagnate -- not  
25 stagnate, but the same over time. And particularly

1 in the catastrophe area, you have limits in excess  
2 of retentions for flat amounts of premium,  
3 including reinstatement premiums, and the broker  
4 gets, you know, his percentage, and often certainly  
5 rightfully so in many cases. But that percentage  
6 has remained rather significant.

7 With regard to the market as a whole, the  
8 market as a whole is an expanding market right now.  
9 There's a lot of capacity out there, and the  
10 reports that you have in your packets indicate  
11 that. Not only has the market expanded, but the  
12 prices are coming down because we haven't had any  
13 losses the last couple of years. And that's great  
14 for all of us, and it's great for the community.

15 Sometimes, though, from a reinsurer's  
16 perspective, it's not so great, they have to  
17 scramble around to find out, you know, where else  
18 they should put their money or how else can they  
19 make a buck for their shareholders. And so they're  
20 scrambling and doing some different things. And  
21 you have situations where reinsurers in the U.S.  
22 are moving to Bermuda; Bermuda reinsurers are  
23 looking to establish footholds in Lloyd's; and you  
24 have -- you know, the reverse is true, you have  
25 Lloyd's syndicates coming into Bermuda; and also

1       you have reinsurance operations setting up  
2       insurance operations here in the state, which to  
3       the degree that they expand our capacity in  
4       Florida, that's terrific. The more money we can  
5       get into our state, obviously the better.

6               With regard to the process in terms of the  
7       value of a reinsurance intermediary, for example, I  
8       would say, I mean, I having been one early in my  
9       days, the reinsurance broker and the intermediary  
10      is an invaluable cog in the wheel. Each company  
11      needs the wherewithal to come in -- as a matter of  
12      fact, not only each company, but even the Florida  
13      facilities should take full advantage of the  
14      facilities and the abilities offered by reinsurance  
15      brokers, such as Guy Carpenter, Willis, Aon, Towers  
16      Perrin and Benfield, Benfield being a very major  
17      player, I know, with regard to the Cat Fund.

18             THE CHAIRMAN: Mr. Walther --

19             MR. WALTHER: Yes, sir.

20             THE CHAIRMAN: -- you will need to wrap up in  
21      about five minutes, because you have a total of 25  
22      minutes left in your presentation and we need time  
23      for questions.

24             MR. WALTHER: I appreciate that, Mr. Chairman.  
25      I will do just that.

1           To wrap up, basically you have -- the business  
2           is a cyclical business. If the losses come, the  
3           premiums will go up the next year. Similarly, if  
4           there are no losses, the premiums tend to go down.  
5           It's a cycle. Just like an accordion, it expands  
6           and contracts depending on, you know, what the  
7           market is doing.

8           The one that -- in closing, I would like to  
9           suggest to this committee and to the powers that be  
10          in our state, I do think that the Legislature was  
11          on track and I think it was in the best interest of  
12          Florida consumers to expand their capacity of the  
13          Florida Hurricane Catastrophe Fund, similarly with  
14          Citizens; but the concern that I have, and as a  
15          resident as well in Florida, is the likelihood that  
16          you could have storms crisscrossing the state.

17          We pay heavy deductibles. We recover whatever  
18          we can from our insurance companies. And to be  
19          faced with additional assessments from the  
20          insurance community, from Citizens or from the Cat  
21          Fund, is an extreme burden -- could be a very, very  
22          extreme burden for all of us.

23          I think it's important that whatever effort  
24          can be made is made to tap into the Florida -- not  
25          the Florida, but the external marketplace, Bermuda,



1 Lloyd's, the private sector. It's out there. It's  
2 got lots of money. But one of the things that also  
3 should be considered is tapping into the financial  
4 markets, which is -- you know, there is a question  
5 as to how much of that has been done.

6 I think with the sophistication -- the  
7 investment sophistication of Citizens and of the  
8 Cat Fund, I think it's important that, as best we  
9 can, we tap into things like insurance-linked  
10 securities and other vehicles that would enable us  
11 to spread the risk beyond our boundaries.

12 One last comment, Mr. Chairman, is the fact  
13 that I think pressures ought to be applied to the  
14 private sector to be more innovative in the  
15 products that they deliver. I think it's important  
16 that, to some degree, we establish maybe a savings  
17 mechanism where the heavy premiums that we pay in  
18 the loss years are put aside and allowed to  
19 accumulate in some fashion.

20 I know that aside from Citizens and the Cat  
21 Fund, those savings aren't tax exempt. But if  
22 somehow favorable tax treatment or favorable rating  
23 terms can be negotiated with the private sector, I  
24 think that there ought to be a way in which to  
25 spread the loss, not only geographically, but over

1 time as well.

2 I think that's about it, Mr. Chairman.

3 THE CHAIRMAN: Thank you, Mr. Walther. I just  
4 have a number of questions, and then I'll go over  
5 to the members.

6 Okay. The first -- by the way, in reference  
7 to the private companies saving, you're aware, of  
8 course, under Federal Tax Code, and we've been  
9 trying to change that --

10 MR. WALTHER: Yes.

11 THE CHAIRMAN: -- those reserves that they  
12 would save are taxed each year. And that's one of  
13 the things that we've been trying to change to  
14 encourage that to occur.

15 I want you to go back to one thing that you  
16 said first, the reinstatement fees, which I  
17 understand the reinstatement is basically in case  
18 there's a second --

19 MR. WALTHER: That's correct.

20 THE CHAIRMAN: -- storm during that year. So  
21 if there is not -- assuming you do have a bad  
22 hurricane, if you had an Andrew, let's say, and  
23 reinsurer -- the insurance company pays a \$20  
24 million premium to their reinsurer and they -- and  
25 the reinsurer, the example that you gave, a 50

1       percent rate-on-line, would be having to pay out  
2       that sum, but then immediately get that same sum  
3       back.

4               So in a case like that, is it that there's  
5       almost no risk to the reinsurer, almost all profit?

6               MR. WALTHER: Well, I hesitate to say profit.  
7       I mean, basically it would be a wash in the event  
8       of a single occurrence, yes. But obviously, as you  
9       correctly point out, the purpose of the  
10      reinstatement premium is to reinstate the limit for  
11      the next event.

12              THE CHAIRMAN: A number of questions. I know  
13      last year, at the beginning of last year, there was  
14      about, let's say, 50, 55 billion of reinsurance  
15      capacity, maybe another 10 billion in alternatives,  
16      Cat bonds, things like that, and demand worldwide,  
17      maybe 125 billion.

18              Do you have any sense today what the capacity  
19      is of reinsurance and reinsurance-like items and  
20      worldwide demand?

21              MR. WALTHER: No, I don't have those numbers  
22      at my fingertips; but my sense of things is, it's  
23      greater. How much greater is the question. There  
24      is the ultimate question as to whether there's  
25      enough capacity out there, in any event, for the

1 next huge one that comes into Miami or Tampa.

2 THE CHAIRMAN: Could you try and get us those  
3 numbers, please?

4 MR. WALTHER: I shall do that, yes, sir.

5 THE CHAIRMAN: I had a friend that was in  
6 Bermuda when we passed this and said that there was  
7 wailing and gnashing of teeth when Florida passed  
8 this because the reinsurers located there were  
9 afraid that they were going to lose, you know, the  
10 gravy train.

11 Can you comment on that?

12 MR. WALTHER: Yes, there was great concern  
13 about that. But, as I mentioned, we had a  
14 situation where those fears did not materialize  
15 because it may well be that certain contracts went  
16 by the boards. In other words, the contracts that  
17 were in place that these reinsurers had derived a  
18 fairly significant income from, those contracts  
19 that went to the Cat Fund, obviously -- not  
20 obviously, but may have left the private sector's  
21 fold.

22 But what happened was that the companies which  
23 moved those coverages to the Cat Fund came back to  
24 Bermuda and other markets and said, okay, while we  
25 can't buy this contract this year because we're

1 being reinsured by the Cat Fund, but we want to  
2 provide -- you know, we want to buy additional  
3 coverage, either at greater limits or third,  
4 fourth, fifth event coverage, to provide for,  
5 again, a frequency of severity, which, again, is  
6 not being dealt with at the moment by the Cat Fund.

7 THE CHAIRMAN: So are you saying that -- what  
8 I think I hear you saying -- I want to make sure I  
9 hear this correctly -- is that a lot of what should  
10 have been the savings went into the purchase of  
11 additional reinsurance, either third, fourth,  
12 fifth, as opposed to standard first or second or  
13 greater amounts than had previously been done? Is  
14 that what you've told us?

15 MR. WALTHER: Yes, Senator, that's my  
16 understanding.

17 THE CHAIRMAN: Thank you. The reinsurers do  
18 not have any guarantee association, is that  
19 correct?

20 MR. WALTHER: That is correct.

21 THE CHAIRMAN: So if you had a really bad  
22 storm, could the reinsurers go bankrupt?

23 MR. WALTHER: Absolutely. There are pressures  
24 now applied by regulators with regard to, you know,  
25 collateral and those kinds of issues. But

1 basically you have admitted reinsurers that are  
2 subject to, again, the regulators; but also you  
3 have very significant pressures applied by the  
4 rating agencies to make sure, as best they can, you  
5 know, that companies --

6 THE CHAIRMAN: Those are the same rating  
7 agencies that were doing the subprime mortgage  
8 bonds, right?

9 MR. WALTHER: Well, I'm not sure that's the  
10 case. I mean, I don't know the mechanisms of the  
11 Standard and Poor's insurance operations, for  
12 example, or A.M. Best, and to the degree. I mean,  
13 presumably they look at assets as well as the  
14 operating procedures of the various companies.

15 But I think that, you know, it used to be that  
16 the reinsurance business was -- and this is maybe  
17 years and years ago already -- but it used to be  
18 that reinsurance contracts were written on the back  
19 of napkins after three-martini lunches. That's not  
20 the case anymore. I think it's fair to say --

21 THE CHAIRMAN: It was five-martini lunches.

22 MR. WALTHER: Well, maybe one and a half. But  
23 I think the point is that I think that the  
24 reinsurance -- private reinsurance community has  
25 demonstrated its proudness and its ability and

1 willingness to pay either as a result, for example,  
2 of 911, the 911 tragedy, as well as the Hurricane  
3 Katrina and Rita and Wilma losses that took place  
4 in '05.

5 I think the reinsurance record of performance,  
6 the private sector's record of performance, I  
7 wouldn't say it's necessarily in all cases  
8 exemplary, but I think it is a far better breed of  
9 cat than it used to be.

10 THE CHAIRMAN: The majority of the reinsurance  
11 industry is located outside the United States,  
12 correct?

13 MR. WALTHER: I think that's now fair to say.  
14 I mean, there's heavy money in Bermuda, as we  
15 talked about, and Europe.

16 THE CHAIRMAN: Is it true that reinsurers are  
17 allowed, the foreign reinsurers -- are able to meet  
18 offshore and engage in collusion, price fixing or  
19 other things, that if they were done in America, in  
20 American companies, would be considered a violation  
21 of United States law or state law, but can be done  
22 without antitrust violations because they're  
23 offshore companies?

24 MR. WALTHER: Well, I hesitate to comment on  
25 that, Mr. Chairman.

1 THE CHAIRMAN: That's what my script says.

2 MR. WALTHER: The point being is that, I mean,  
3 I've been in this business now, as I mentioned,  
4 about 45 years, and I'm not going to stand here  
5 again and tell you that things don't go on. They  
6 do go on.

7 I mean, who knows whether there are rebates  
8 out there and collusions, and there are issues  
9 having to do with the major insurance broking arms  
10 or insurance broking operations which have  
11 reinsurance subsidiaries and links between, you  
12 know, companies doing reinsurance deals. I am not  
13 personally familiar with any of the shenanigans  
14 that may or may not have gone on.

15 THE CHAIRMAN: I'm just saying, would they be  
16 legal since they're not done in this country? It  
17 would seem to me that -- at least my script says --  
18 it would seem to me that they would be legal,  
19 because if they're not in this country, they can't  
20 be in violation of U.S. law.

21 MR. WALTHER: Well, that may be true. As I  
22 say, I'm not really in a position to comment on  
23 that. But to be honest about it, my feeling very  
24 strongly is that, as is the insurance business, the  
25 reinsurance business is one of utmost good faith.



1           As a for instance, for the most part when you  
2           have a reinsurance placement that is placed by a  
3           reinsurance broker among the reinsurance market,  
4           invariably the terms and conditions of that  
5           placement will be the same across the board. The  
6           reinsurance broker, you know, basically oftentimes  
7           cannot, because of its own reputation, afford to  
8           have non-concurrent terms across its markets.

9           THE CHAIRMAN: A couple of last questions. I  
10          need to turn it over shortly. The Cat Fund -- the  
11          TEACO, the so-called -- the extra Cat Fund is  
12          scheduled to lapse in another two years. We have  
13          been led to believe one of the reasons for the  
14          softening in the reinsurance market is the creation  
15          of the extra -- of the Cat Fund, the TEACO, which  
16          took \$12 billion of capacity away.

17          What would the effect be if the \$12 billion  
18          TEACO just went away overnight? Could the  
19          reinsurance market absorb that without a huge  
20          increase in prices?

21          MR. WALTHER: I would say it's probable. It's  
22          -- you know, again, the market, you know, ebbs and  
23          flows. Now, again, I would maintain, as I did  
24          earlier, that the Cat Fund, and as much limit is  
25          appropriate, should be continued, but that, in my

1 view, that limit should be as high as it can go and  
2 truly a market of last resort.

3 THE CHAIRMAN: Last question: The Legislature  
4 was -- has been led to believe that the reason that  
5 our insurance rates went so high in the 2006 time  
6 period was the substantial increase in the cost of  
7 reinsurance.

8 Do you agree that there was a very high cost  
9 of increase in reinsurance prior to this, and if  
10 so, what do you believe was causing that?

11 MR. WALTHER: Absolutely. I mean, there's no  
12 question. As I mentioned, this business is  
13 cyclical; and if the business suffers loss, as it  
14 did in '04 and '05, there's no question that, you  
15 know, the reinsurance pricing would go up.

16 The reinsurers are looking to get back the  
17 loss. Again, they're looking to get paid back the  
18 losses that they suffered. Once they have done  
19 that and they see times are good and they're faced  
20 with competition, the prices go down again.

21 And despite the protestations of the market to  
22 the contrary, oh, yes, we're going to be more  
23 responsible, again, it's like an accordion, it just  
24 goes back and forth and it continues on.

25 THE CHAIRMAN: Thank you.

1 Chairman Atwater, do you have any questions  
2 before I turn it over?

3 SENATOR ATWATER: Yes.

4 THE CHAIRMAN: Senator Posey, you will be  
5 next.

6 SENATOR ATWATER: Thank you, Mr. Walther. Is  
7 there an annual meeting held of the reinsurance  
8 offshore players?

9 MR. WALTHER: Well, yes and no. I am not  
10 aware of any formal meeting, but there is a large  
11 international meeting held in Monte Carlo every  
12 year, and Baden-Baden, for example, with regard to  
13 European players. And it's sort of a gathering of  
14 the clan. And brokers and markets go there, and  
15 they basically --

16 SENATOR ATWATER: Have you ever attended the  
17 meeting?

18 MR. WALTHER: No, unfortunately not. I never  
19 had the chance. I always had the thought that I  
20 would like to go once, but I've never been.

21 SENATOR ATWATER: A gathering of the clan.  
22 How about this, you mentioned that, very  
23 complimentary -- I think that's what you meant it  
24 to be, anyway -- that the Legislature a year ago  
25 was on the right path in expanding the Cat Fund,

1 and that yet it has its limitations.

2 So could you give us specifically what you  
3 might recommend -- if the effort that the  
4 Legislature undertook was to try to find a way to  
5 offer relief to the consumers of Florida by this  
6 exercise, understanding it was taking on a  
7 significant level of risk, but trying to balance  
8 that and the near-term challenges that the  
9 homeowners were facing, what more could we have  
10 done? Because, again, as you mentioned, how could  
11 we have anticipated that players would go off to  
12 find additional limits to buy? How else are we to  
13 try to work this process through, that relief could  
14 really make its way to the homeowner?

15 MR. WALTHER: That's really a very good  
16 question. And, again, as a Florida resident -- you  
17 know, and I live in Orlando -- I would like to  
18 think that my price -- you know, the pricing that I  
19 pay for insurance will go down.

20 But I think that unless and until there is a  
21 way in which to access markets, you know, beyond  
22 our borders and truly get us a spread of risk that  
23 we really don't have in our state, it's a tough nut  
24 to crack.

25 The problem that we have, in my view, with

1        regard to the Cat Fund, I think it's a necessary  
2        market to have. I think even though it's necessary  
3        from the standpoint of capacity, it doesn't  
4        provide, I'm afraid to say, the sort of relief that  
5        all of us would like to see. You know, there needs  
6        to be -- generally speaking, rates ought to be  
7        reasonable, adequate and not unfairly  
8        discriminatory.

9            The point of the matter is, we have an awful  
10       lot of risk in our state. Somebody has to pay the  
11       price. And what the Cat Fund, in my view, does, it  
12       provides an additional level of capacity, but it  
13       doesn't -- you know, it doesn't -- and I don't  
14       think it should, necessarily -- be pricing its  
15       product to the degree that exposes all of us to  
16       horrific assessments down the road.

17           Now, one of the things that I quite, you know,  
18       appreciate, and I don't know all the details, but I  
19       understand that our Chief Financial Officer has  
20       certain thoughts about the Cat Fund in terms of  
21       reducing coverage, and I think that's a plus.

22           Again, my view is that, to the degree that it  
23       can, the rating, the pricing structure of the Cat  
24       Fund, ought to be as sample as it can be. It needs  
25       to be perceived as being very secure money, you

1 know, by the insurers that they serve.

2 I think up to this point in time, maybe  
3 because of the volume of exposure it has, there's a  
4 perception that maybe when the losses come, the Cat  
5 Fund won't respond. And I think it's maybe a  
6 psychological thing.

7 But, you know, to say ultimately that there's  
8 a way in which to truly save our consumers, you  
9 know, a fair amount of money, that's not it. I  
10 think that what we can hope for and what I  
11 suggested earlier, I think the way in which to cope  
12 with a lot of this is, in some fashion or other,  
13 either give it to the reinsurers if we can't  
14 generate, you know, the tax savings, and I know  
15 Citizens and the Cat Fund can.

16 I think the Cat Fund is in a preferred  
17 situation where it's -- you know, it can do more  
18 for the consumer at less price because of its tax  
19 structure, because of the tax advantage it enjoys.

20 SENATOR ATWATER: Last question, Mr. Chairman.

21 THE CHAIRMAN: Go ahead.

22 SENATOR ATWATER: You mentioned earlier that  
23 the Cat Fund should look into the financial markets  
24 to spread the risk. Can you be more specific on  
25 products that exist today that we could be engaging

1 in to spread that risk?

2 MR. WALTHER: Well, one of the things --  
3 again, I'm a traditional sort of reinsurance  
4 person. I grew up and I majored in insurance at  
5 the Wharton School of Penn, and I've been a  
6 reinsurance -- a traditional reinsurance person.

7 What I've been excited about is the fact that  
8 apparently -- and my understanding is that last  
9 year there was something on the order of 6 billion  
10 capital-market-related products out there that were  
11 sold that, you know, benefitted really the more  
12 sophisticated buyers.

13 And basically it's my understanding that the  
14 Cat Fund, for example, does have -- I mean, clearly  
15 it has access to the financial market by virtue of  
16 its bonding strategies. And I guess my feeling is  
17 that to the degree that we can, the private sector  
18 can, and the public sector as well, can somehow  
19 accumulate, give it to the reinsurers and have them  
20 pay it back when the losses happen, try to  
21 basically get us to a position, a more  
22 loss-leveled, a more even -- you know, I shouldn't  
23 say playing field, necessarily, but a more even  
24 climate where we don't have the swings, you know,  
25 the peaks and valleys of pricing variation that we

1 have today.

2 THE CHAIRMAN: Thank you, Mr. Walther.

3 Members, I'm going to call on Senator Posey,  
4 followed by Senator Bennett, followed by Senator  
5 Ring. We have about eight minutes. I have a bunch  
6 more questions, but I have no time.

7 Senator Posey, you're recognized, sir.

8 SENATOR POSEY: I have a series of questions,  
9 too, and I doubt if I get through them in eight  
10 minutes.

11 THE CHAIRMAN: Okay.

12 SENATOR POSEY: Mr. Walther, how many major  
13 reinsurance companies are there, do you know?

14 MR. WALTHER: I'd have to research that, Mr.  
15 Senator. There are a bunch, and I could access  
16 the facilities -- the Reinsurance Association of  
17 America probably to help out in finding that. But  
18 I will be glad to research that for you.

19 SENATOR POSEY: Can you swag it?

20 THE CHAIRMAN: Can you give us a ballpark of  
21 the majors?

22 MR. WALTHER: Of the majors? Well, I mean,  
23 you have fewer majors writing more of the business  
24 these days. I would say that of the truly major  
25 players, I would say, 20, 25.



1           SENATOR POSEY: How many of them are in the  
2           Cayman Islands? Do you have any idea?

3           MR. WALTHER: Not that many that I'm aware of.  
4           The one thing, Mr. Senator, I mean, that we might  
5           consider -- and I hesitate to throw his name out  
6           there -- but there's a name familiar to all of us  
7           in this room and to many throughout the country, is  
8           Warren Buffett.

9           And Mr. Buffet has made endroads in terms of  
10          his willingness to take over some of the subprime  
11          exposure. But he's got one of the major, you know,  
12          truly major, major reinsurance operations.

13          SENATOR POSEY: Okay. Thank you.

14          How do rates differ between the different  
15          insurance (sic) companies?

16          THE CHAIRMAN: Reinsurance companies?

17          SENATOR POSEY: Reinsurance companies.

18          MR. WALTHER: Well, basically I hesitate to  
19          say it's a consensus, but it ends up being that.  
20          What happens is that the --

21          SENATOR POSEY: That's really what I thought,  
22          I just wanted an affirmation from somebody who  
23          knows it and --

24          MR. WALTHER: Well, when I say "a consensus,"  
25          I'm not really talking about it -- I mean, let's

1 put it this way, the closer any contract is to  
2 loss, the more expensive it's going to be.

3 And so you may have a situation where one  
4 market will say it's a payback of, you know, a 50  
5 percent rate-on-line; somebody else might do it for  
6 40.

7 SENATOR POSEY: It's just ironic, they all  
8 level out at the same rate, from what I understand.  
9 And, I mean, it was my understanding that when we  
10 passed Senate Bill 1A -- or House Bill 1A, whatever  
11 it was when we passed it, reinsurance rates  
12 worldwide dropped 15 percent. Now, that tells  
13 me -- do you recall anything like that?

14 MR. WALTHER: Well, I think -- at that time I  
15 think that the reinsurance rates were dropping. I  
16 don't know whether it was 15 percent or not. But,  
17 again, it was, you know, after 2006.

18 SENATOR POSEY: A Government Affairs guy for  
19 the reinsurance business here told me they dropped  
20 15 percent worldwide. But you're the insurance  
21 major, I thought you would know that.

22 But with all due respect, you know, we've  
23 learned pretty much on this committee that guys  
24 that majored in insurance learn how companies make  
25 money, they don't really learn how to help Joe Blow

1 back home, and we're here to help Joe Blow.

2 MR. WALTHER: I understand.

3 SENATOR POSEY: It tells me if rates dropped  
4 or plummeted 15 percent when we passed one bill, it  
5 tells me that the rates really aren't based on  
6 losses, they're based on what the traffic will  
7 bear.

8 And this is a market, clearly, that many of us  
9 think has been exploited. And the questions we're  
10 asking you today, you know, aren't to -- meant to  
11 be disrespectful at all. I mean, this is  
12 fact-finding stuff. I mean, you know, we want to  
13 make sure that, to the best degree possible, that  
14 we make sure we don't allow the insurance versions  
15 of Enron and WorldCom to operate here.

16 And, you know, it really makes my cackles  
17 stand up when somebody starts talking about our  
18 exposure to assessments with our Cat Fund. I mean,  
19 it's like it would get paid some other way. You  
20 know, the only difference is here -- I mean, last  
21 year we had \$3.7 billion of profit go out of this  
22 state, and we're going to hear the companies whine  
23 like crazy the first time they have to pay a nickel  
24 for another storm. And, you know, the excuse is,  
25 well, the Federal Tax Code that we all push up here

1 won't let us do that.

2 But do you think there's some way, if a major  
3 storm hit here, if we didn't have the Cat Fund --  
4 if we had the Cat Fund, let's say --

5 THE CHAIRMAN: Senator Posey, can you move  
6 closer to the mike again?

7 SENATOR POSEY: Let's say we have a Cat Fund  
8 and the state has to come up -- we have to assess  
9 people \$5 billion to pay back that loss. Do you  
10 think they wouldn't pay back \$5 billion, plus 3.7  
11 extra every year we don't have a storm?

12 I mean, this clearly assessing people for the  
13 exact amount of the storm in arrears beats the heck  
14 out of paying for it ten times in advance. I mean,  
15 is there something wrong with that theory that we  
16 missed when we passed that? I thought it was  
17 common sense, good judgment; if we could pay it, we  
18 should do it.

19 THE CHAIRMAN: Mr. Walther, do you understand  
20 the question, and can you respond?

21 MR. WALTHER: Well, I guess -- I think I  
22 understand the question. I mean, the market -- I  
23 hesitate to say it quite this way, but it is what  
24 it is. I mean, the point of the matter is, if the  
25 market is not allowed to function and get what they

1 perceive as an adequate price for the product, they  
2 won't be there, you know, they won't write the  
3 business.

4 And so the question is whether or not it's in  
5 everybody's best interest to perhaps, you know, if  
6 you will, do away with reinsurance and basically  
7 just insure ourselves and forget about the world  
8 and, you know, just do without. But -- because,  
9 again, it's sort of the situation where we're  
10 collecting the premiums of the many to pay the  
11 losses of the many.

12 And that's -- you know, the market is out  
13 there, and it functions. Whether or not it  
14 functions, you know, in anyone's best interest but  
15 its own is problematic, I understand that.

16 SENATOR POSEY: Yes.

17 MR. WALTHER: But to have it trickle down -- I  
18 mean, to have an expectation that -- you know, that  
19 they're in it for anything -- I mean, I understand  
20 what you're saying, I mean, they're not a  
21 non-profit -- the market is not a non-profit batch  
22 of companies, they're in it for profit.

23 And the question is -- and this is what we  
24 depend on the OIR for, is to make sure, as best we  
25 can, is that that profit is reasonable. I mean,

1 it's where we get to unreasonable profit that there  
2 is a problem in terms of the perception of the  
3 marketplace.

4 THE CHAIRMAN: Except OIR does not regulate  
5 the reinsures.

6 SENATOR POSEY: Exactly. Have you ever heard  
7 of any reinsurance companies going bust?

8 MR. WALTHER: Yes, there have been.

9 SENATOR POSEY: How many?

10 MR. WALTHER: Well, I mean, again, I would  
11 have to research that. But they do go bust. I  
12 mean, you know, you have situations where in  
13 London --

14 SENATOR POSEY: When is the last one you heard  
15 of?

16 MR. WALTHER: Sorry?

17 SENATOR POSEY: When is the last one you heard  
18 of?

19 MR. WALTHER: Well, not in for a while, but, I  
20 mean, as I say, in a way that's perhaps testimony  
21 to the fact that, for example, in the Katrina  
22 storms and the losses of '04 and '05, you know,  
23 that they were willing and able to pay their bills.  
24 Yes, they want some money back.

25 SENATOR POSEY: They were. You know, if this

1       wasn't a guaranteed winner, you know, Warren  
2       Buffett wouldn't be in it. That's pretty obvious.

3             And, you know, I mean, we don't mind them  
4       making a profit, and I would never -- I was brought  
5       up, you don't ever ask anybody how much money they  
6       make even if it's a matter of public record.

7             But, you know, we have executives coming  
8       through here from publicly-traded companies, and  
9       members say, out of curiosity, what's your  
10      compensation, and, for whatever reason, they're  
11      ashamed to tell it, you know. That goes back, to  
12      me, a flashback of the other companies that we've  
13      had being exploited.

14            I mean, I think I'm a fairly reasonable  
15      person, and I think most of the people back in my  
16      district are fairly reasonable, but I think they've  
17      been -- I think the people back home think they  
18      have been shafted pretty badly. And I tend to  
19      sympathize with them on that, and nothing you have  
20      explained tells me any different.

21            And it particularly still bothers me that you  
22      don't understand the concept as I do, or I don't  
23      understand your concept correctly, that if we have  
24      the capacity to offer this reinsurance for our Cat  
25      Fund like we did and the public would only pay

1 above their estimated rate of coverage if there was  
2 a loss, and if there was no loss they wouldn't pay  
3 extra, as opposed to going to the private market,  
4 which is unwilling to insure hundreds of thousands  
5 of homes in our state, you know -- you know  
6 Citizens is the largest insurance company in our  
7 state now. I mean, if the --

8 THE CHAIRMAN: Senator Posey, we're about to  
9 need to move on.

10 SENATOR POSEY: -- voluntary market was  
11 willing to belly up to the bar even a little bit,  
12 we wouldn't be in any of these situations. But  
13 they're not. They want to cancel everybody that's  
14 a risk and overcharge everybody that's not.

15 And we just don't see any evidence -- that's  
16 why you're here, we want to make some sense of this  
17 stuff. We want to try and understand how what  
18 seems to be going on here is logical and fair. But  
19 that's not it. And a lot of the questions I asked  
20 you you're going to research for me, you know. And  
21 I'd really like to have the answers when you have  
22 them, but that's going to cause more questions and  
23 further reflection on this.

24 MR. WALTHER: Yes.

25 SENATOR POSEY: Thank you, Mr. Chairman.



1 That's enough.

2 THE CHAIRMAN: Thank you. We really are at --  
3 need to move on.

4 Senator Bennett, I will take one question if  
5 you have a quick one.

6 SENATOR BENNETT: I do have a question; but,  
7 again, Mr. Chairman, had we started on time I think  
8 we would have had time for the questions.

9 You had expressed concern. You said that the  
10 insurance companies were concerned that -- about  
11 the Cat Fund, so, consequently, they were concerned  
12 that we were going to have the ability to pay into  
13 the Cat Fund.

14 You're the first person who said that. We've  
15 had three or four insurance companies up here, and  
16 nobody has brought that up before, as the reason  
17 that they went out and bought more reinsurance is  
18 they thought that the financial backing of the  
19 state of Florida wasn't good enough.

20 Are the reinsurance companies so big that  
21 they've got more financial capacity than the state  
22 of Florida does?

23 MR. WALTHER: Oh, no, no, I wouldn't say that,  
24 Senator. And basically I think, you know, again,  
25 it's a matter of perception, and I think -- as a

1 practical matter, I think that there is a  
2 perception out there that the Cat Fund can pay  
3 within -- obviously within its abilities.

4 The question is whether or not it can handle  
5 it and whether or not an insurance company's  
6 exposure well exceeds the coverage provided by the  
7 Cat Fund versus, you know, in terms of second,  
8 third and fourth events or limits higher than  
9 what's available.

10 SENATOR BENNETT: I guess what I'm saying is,  
11 did you have any insurance companies actually tell  
12 you that was the reason that they bought more?

13 MR. WALTHER: No, I mean, that's the sense in  
14 some of the press that I read as well.

15 SENATOR BENNETT: That was the assumption.

16 THE CHAIRMAN: Okay. Thank you, sir.

17 And, Members, I apologize. I know that  
18 there's a lot of you that have a lot more  
19 questions, but we have two more presenters and we  
20 only have two hours and twelve minutes left; and if  
21 we're going to give any time to them, we have to  
22 move on now.

23 Senator Fasano.

24 SENATOR FASANO: Thank you, Mr. Chairman. I  
25 was just wondering if maybe when we do have

1 presenters in the future you might want to reach  
2 out to the members and ask them if they have  
3 questions before you or the other chair indulge in  
4 your questions, you know.

5 THE CHAIRMAN: Senator, we have a script of  
6 questions that we're supposed to ask.

7 SENATOR FASANO: That's great. I don't have  
8 that script, Senator.

9 THE CHAIRMAN: Okay.

10 SENATOR FASANO: Thank you.

11 THE CHAIRMAN: Sir, Mr. Walther, thank you for  
12 being here today, sir. We appreciate it. I  
13 understand you'll be sticking around until the end?

14 MR. WALTHER: Yes, Mr. Chairman.

15 THE CHAIRMAN: Thank you.

16 MR. WALTHER: Thank you.

17 THE CHAIRMAN: At this point in time, we have  
18 invited representatives of the Florida Commission  
19 on Hurricane Loss Projection Methodology to be here  
20 today. They will have until approximately 10:30  
21 and then we will have to wrap up with our last  
22 group of speakers, which will be from AIR. And the  
23 meeting must end at 11:45. So, again, we're going  
24 to be on a very tight time schedule as we proceed.

25 We have invited representatives from the

1 Florida Hurricane Commission -- Florida Commission  
2 on Hurricane Loss Projection Methodology to be here  
3 today. Two of the Commission members are here,  
4 including their Chairman, as well as three members  
5 of the Professional Team that have been hired by  
6 the Commission. They are Randy Dumm -- Dr. Randy  
7 Dumm, Ph.D., Chairman of the Commission. Dr. Dumm,  
8 thank you.

9 Jack Nicholson, Ph.D., member of the  
10 Commission, and Senior Officer of the Florida,  
11 Hurricane Catastrophe Fund. Dr. Nicholson, thank  
12 you.

13 Mark Johnson, Ph-- Dr. Mark Johnson, a member  
14 of the Professional Team. Dr. Johnson, thank you.

15 Martin Simons, a member of the Professional  
16 Team; and Charles Watson, Jr., a member of the  
17 Professional Team.

18 Members, tab 3 of the packet contains a copy  
19 of the statute creating the commission and  
20 background information about the panel members.  
21 Tab 4 contains a copy of their Power Point  
22 presentation.

23 Again, Members, we are taking all testimony  
24 under oath. Are all of you prepared to testify  
25 under oath?

1 Thank you. Please raise your right hand.

2 (Witnesses sworn en masse.)

3 THE CHAIRMAN: I'm sorry, I need to ask you  
4 individually.

5 Dr. Dumm?

6 DR. DUMM: I do.

7 THE CHAIRMAN: Dr. Nicholson?

8 DR. NICHOLSON: I do.

9 THE CHAIRMAN: Dr. Johnson?

10 DR. JOHNSON: I do.

11 THE CHAIRMAN: Mr. Simons?

12 MR. SIMONS: I do.

13 THE CHAIRMAN: Please note for the record that  
14 each witness has answered in the affirmative and is  
15 now testifying under oath. Again, we have  
16 approximately 55 minutes for this presentation.

17 Dr. Dumm or Mr. (sic) Nicholson, which of you  
18 will be making the presentation?

19 DR. DUMM: Part of it, yes, sir.

20 THE CHAIRMAN: Sir, you're recognized. Again,  
21 thank you for being here today, sir.

22 DR. DUMM: Thank you, Chairman Gellar and  
23 Committee Members. We appreciate the opportunity  
24 to appear before your committee today to discuss  
25 hurricane loss modeling. This topic is certainly

1 currently one of the primary areas of debate within  
2 this area of ratemaking in the state of Florida.  
3 We're hopeful that the information that we provide  
4 today will be useful to you and your committee as  
5 you continue to work into the future.

6 Before I begin the presentation, I would like  
7 to provide a little more information regarding the  
8 credentials of the three Professional Team members  
9 who are here today. Our Professional Team is  
10 composed of individuals with expertise in one or  
11 more of the disciplines related to hurricane  
12 modeling. That would be meteorology, statistics,  
13 actuarial science, engineering and computer  
14 science.

15 When I joined the Commission in 2001, I was  
16 struck by the level of detail and structure that  
17 was in place at that point in time, and I also was  
18 very impressed with the level of talent that we had  
19 been able to attract to our Professional Team, and  
20 that continues to be the case.

21 Our Professional Team, as Mr. Chairman Gellar  
22 mentioned, represents us and conducts our audits  
23 onsite. Now, they also work with the Commission to  
24 help raise the bar as it relates to evaluating  
25 hurricane loss models.

1           To the right of Dr. Nicholson is Dr. Mark  
2 Johnson. Dr. Johnson is the statistician on the  
3 Professional Team and is the team leader and has  
4 been involved with the Commission since its  
5 inception in 1995. Mark is a professor and former  
6 Chair of Statistics at the University of Central  
7 Florida. He has worked at Los Alamos National  
8 Laboratory. He has been a professor at Georgia  
9 Institute of Technology. He is a Fellow of the  
10 American Statistical Association, elected member of  
11 the International Statistical Institute, a  
12 Chartered Statistician with the Royal Statistical  
13 Society, and his research has appeared in a wide  
14 range of journals, quantitative statistics and  
15 insurance.

16           To Mark's right is Martin Simons. Marty has  
17 been the lead actuary on the Professional Team  
18 since 1997. He is an Associate of the Casualty  
19 Actuarial Society and a member of the Academy of  
20 Actuaries. He provides actuarial consulting,  
21 assistance to regulators, legislatures and state  
22 agencies in several states. And from this  
23 perspective, he provides a regulatory bent that is  
24 helpful to the Commission as it does its business.

25           Marty has been the P&C actuary for the Hawaii

1 Insurance Division for the past 21 years. For 12  
2 years, Marty was the Deputy Director and Chief  
3 Actuary for the South Carolina Department of  
4 Insurance. He has also chaired several committees  
5 of the National Association of Insurance  
6 Commissioners.

7 And finally, Chuck Watson is on the  
8 Professional Team. Chuck is an engineer who  
9 specializes in numerical modeling, including the  
10 simulation of extreme events. Of course,  
11 hurricanes would fit well within that category.

12 Chuck is a specialist in the application of  
13 satellite sensing and computer models to natural  
14 and human hazards. He provides hurricane and  
15 mitigation planning services to both public and  
16 private sector clients.

17 I thought it would be helpful just to take a  
18 minute, Mr. Chair, just to give your committee some  
19 background on that. So what we would like to do  
20 today would be to cover some areas that I think  
21 will be of help and obviously answer any questions  
22 that I believe your --

23 THE CHAIRMAN: Dr. Dumm, do you know how long  
24 your Power Point is?

25 DR. DUMM: It is about 30 slides. I figure



1 about a half an hour to get through that.

2 THE CHAIRMAN: Again, we have a total of about  
3 51 minutes, and I know the members will want to ask  
4 a lot of questions, so --

5 DR. DUMM: Okay. So we'll proceed with  
6 expedience.

7 As far as moving to -- the first part of the  
8 presentation is to give you a brief overview of the  
9 Florida Hurricane Commission. I think it may be  
10 helpful just to talk a little bit about the history  
11 of modeling and why we have hurricane modeling  
12 today.

13 If you go back to Hurricane Andrew and the  
14 losses that occurred at that point in time, it  
15 became apparent that traditional actuarial  
16 techniques of using past loss to determine future  
17 rate was not going to work, and so this hurricane  
18 modeling came into wide adoption and continues to  
19 be the approach of choice when making your --  
20 calculating rate for hurricane or catastrophic  
21 types of events.

22 The problems that you have in this is that it  
23 is based in science and a layman has difficulty in  
24 getting his or her arms around the process and  
25 understanding what's going on. The other problem

1       that you have is that the model is built with --  
2       inside of a black box, and it is difficult for  
3       individuals to see inside.

4             And so in the effort to get a better  
5       understanding of the modeling process and to get a  
6       better understanding of what fits inside of this  
7       black box, the Legislature in 1995 created the  
8       Florida Commission on Hurricane Loss Projection  
9       Methodology and established the sense that there is  
10      a need for expert evaluation of computers models.

11            Let me skip over to this slide in the sense  
12      of -- for the sense of time. The composition of  
13      the Commission, it was established in 1995, brings  
14      individuals from various backgrounds onto the  
15      Commission, and I think it is something that is  
16      valued.

17            So we have actuaries that are playing an  
18      important role on the Commission. We have experts  
19      from the State University System that are appointed  
20      to the Commission; but you also have the Insurance  
21      Consumer Advocate, the Executive Director of  
22      Citizens, the Senior Florida Hurricane Catastrophe  
23      Fund Officer, and the Director of the Division of  
24      Emergency Management on this particular Commission.

25            So it provides a different sense for how we do

1 business than a straight technical type of  
2 commission. This slide, I think, violates all the  
3 pedagogical rules relating to teaching as it's very  
4 difficult to see. You have the information in  
5 front of you, and we put it together simply to give  
6 you a sense for the history of the Commission.  
7 There's some names on there that members of your  
8 committee would recognize.

9 We also provide the information as a way to  
10 show how we plan for the continuity of our audit  
11 team. It's not just a matter to have technical  
12 expertise on this audit team, it's also a matter to  
13 have auditing expertise.

14 And as you see on the slides, each of these  
15 Professional Team members has a backup. And so in  
16 the event that one of the Professional Team members  
17 cannot go on an audit, we have a trained individual  
18 in both the technical side and in the auditing  
19 side, as it relates to hurricane modeling, where an  
20 experienced individual would go onsite.

21 The Commission is formed on principles. And  
22 we include this slide just to give you a sense for  
23 some of them. If you go to page 15 of our Report  
24 of Activities -- and each of you should have  
25 information based on Report of Activities. We also

1 provide you with the report that we provided to the  
2 House of Representatives in November for additional  
3 information purposes to your committee.

4 But these are some of the principles that  
5 serve as our guiding light as a Commission and were  
6 used to form the standards that we evaluate a  
7 hurricane computer model on. The first one is:  
8 All models or methods must be theoretically sound.  
9 It is not simply enough to say, I have a good idea,  
10 I think it's going to be an improvement, it's going  
11 to be an innovation. The innovation or improvement  
12 or idea must be supported by the science. It must  
13 have firm grounding in the literature.

14 The models or methods shall not be biased or  
15 overstate or understate results. One of the first  
16 things I learned when I went on the Commission,  
17 which I found of interest, is that if you have a  
18 model that perfectly explains a prior event, you  
19 know, that may be a problem; because if you can  
20 calibrate the model to perfectly predict or  
21 perfectly estimate a prior event, you are likely  
22 introducing bias in that model, and that's going to  
23 impact on its ability to predict models -- or  
24 events, rather, that are not precisely like the one  
25 that you are working with.

1           Finally, the outputs or methods shall be  
2           reasonable, meaning that they do not provide  
3           excessive loss cost. The foundation and the  
4           judgments that go into developing these methods and  
5           models shall be supportable.

6           Quickly, an overview of our cycle, we start in  
7           June where we look back to the prior model year and  
8           make decisions about how we can improve our  
9           process. This runs through with Commission  
10          meetings in September to adopt new standards. We  
11          produce this Report of Activities then in November.

12          Moving forward then to the next calendar year,  
13          we start in February with model submissions, we  
14          meet as a Commission in March, and at that point in  
15          time make decisions to send our audit team to  
16          conduct onsite audits. We will meet then with the  
17          modelers themselves in Tallahassee in May. That is  
18          a typical year for us.

19          THE CHAIRMAN: You have approximately 45  
20          minutes left in the entire --

21          DR. DUMM: Thank you. I've already talked  
22          about the expertise needed in the composition of  
23          the Professional Team, and you will get to hear  
24          some of that in just a minute. So let me move  
25          through this slide.

1           Our standards that we operate under are 36  
2           standards across 6 categories. The thing that your  
3           committee needs to understand is not -- as to how  
4           we work is that the modeler must pass all 36  
5           standards. There is not an 80 percent pass rate  
6           that is acceptable. If the model fails one  
7           standard, the model does not pass.

8           Within each -- some of the standards are  
9           disclosures of additional information that the  
10          modeler must provide. There are forms related to  
11          statistics, to actuarial and engineering or  
12          vulnerability that the modeler must produce, and  
13          these are a substantial amount of information and  
14          data provided. And then there is additional  
15          information that the modeler must provide to the  
16          audit team when they are onsite.

17          So I think that, just to finish my part of the  
18          presentation, I would back right at the conclusion.  
19          But just to summarize, just to give you a sense for  
20          the activity that we're involved with, it is an  
21          active commission, it meets on average about ten  
22          times per year. These are day-long meetings when  
23          we meet.

24          Moving down to the fourth goal of point is one  
25          where I think we provide value to the state of

1 Florida in our operations. The first is that we  
2 are an independent commission. When we showed the  
3 composition of the Commission, I think that one  
4 thing of value is that each person brings some bias  
5 to the process based on their experience, their  
6 employer or whatever. But I think through the  
7 process and the Commission's activities provide  
8 independence.

9 The second thing that we do provide is this  
10 rigorous public disclosure. We operate in the  
11 Sunshine with the exception of being able to move  
12 into closed session following the 2005 legislation  
13 to look at trade secret type of data. And that's  
14 been very helpful.

15 Everything else we do, with the exception of  
16 the trade secret information and the onsite audits,  
17 are out in the public. We generate a lot of public  
18 documents and information, and that is fully  
19 available.

20 So at this time I would like to turn, with  
21 your permission, Mr. Chair, turn the presentation  
22 over to Dr. Johnson to talk about hurricane loss  
23 models.

24 THE CHAIRMAN: Dr. Johnson, thank you for  
25 being here, sir. You're recognized.

1 DR. JOHNSON: Thank you, Senator Gellar and  
2 Committee Members. I'll try to move right along.

3 This first slide just gives a schematic of how  
4 the hurricane models work. You've been hearing  
5 about them a lot in the last few weeks. This gives  
6 the general structure.

7 There's a historical record from 1851 on.  
8 Modelers then construct their own stormset for  
9 purposes of extrapolating things out into the  
10 future; what do they think the storms are going to  
11 look like down the road. For individual storms,  
12 they produce a wind field; in other words, what are  
13 the winds throughout the state versus the  
14 structures that are there.

15 As winds go over land, the winds weaken, so we  
16 have a friction -- they'll have a friction model,  
17 in which case you'll need to know what the landuse  
18 land cover is in the state of Florida. Once winds  
19 hit a structure, how much damage do they inflict.  
20 Once the damage is taken care of from an  
21 engineering standpoint, what are the actual insured  
22 losses.

23 So this is the general schematic of what all  
24 of the models are doing internally. And in a sense  
25 we've raised the hood to give you a sense of what



1       they're like so it's not a pure black box. And,  
2       let's see, to forward this -- there we go.

3               So in building a model, these are some of the  
4       areas that one has to consider: What are the input  
5       databases that drive the model; wind field I  
6       mentioned just a second ago; the friction, how much  
7       damage is inflicted. You know, if there's a  
8       100-mile-an-hour wind, how much damage does that  
9       cause. If it goes to 110, it's more than 10  
10      percent additional damage. So that's tied to the  
11      damage functions.

12              Frequency, which we've also been hearing about  
13      a little bit this morning, a lot of decisions to be  
14      made by the development of models. Now, there's  
15      been mention of the audit process where our pro  
16      team goes in and --

17              THE CHAIRMAN: Guys, I apologize. I've had a  
18      number of members coming up to me telling me the  
19      importance of questions here. I'm going to need to  
20      ask you to move this along as quickly as you can.  
21      We have until 10:30 to finish with you, and we need  
22      at least 20 minutes of questions, and preferably  
23      25.

24              DR. JOHNSON: I wonder if I propose to just  
25      kind of give you a sense of what the slides are

1           like and then go right to the questions --

2           THE CHAIRMAN:   Great.

3           DR. JOHNSON:   -- would that be --

4           THE CHAIRMAN:   Great.

5           DR. JOHNSON:   In universities when the  
6           students are eager to ask questions, I'm  
7           responsive, so --

8           THE CHAIRMAN:   If you can try and wrap up your  
9           presentation in the next 10 to 15 minutes.

10          DR. JOHNSON:   Okay.   In a sense, what we have  
11          done is, we have a process whereby we can go  
12          through and assess the models.   We have our own  
13          calculations in advance, and when we go onsite, we  
14          can go ahead and assess how the modelers are doing  
15          with respect to what we would expect versus just  
16          looking at their submissions and asking questions  
17          where they have the, in a sense, upper hand as to  
18          what's being presented.

19          So, again, I mentioned input databases.   Maybe  
20          the key point to make here is, why do models  
21          differ?   That's been a common theme.

22          THE CHAIRMAN:   A very important issue.

23          DR. JOHNSON:   You know, you have one watch,  
24          you know what time it is; you have two watches,  
25          you're never sure.   We have five models that are

1 being considered, so there's a number of aspects.  
2 Meteorology plays a role. That's what our research  
3 has shown. There's other aspects that can drive  
4 the differences in models.

5 So we can't explain precisely, but we don't  
6 expect the models to agree completely. In fact,  
7 we'd be surprised if they all did. But we can get  
8 at what the variation is. So that's really the  
9 technical side that our Professional Team has been  
10 involved in, what is the variability, and how do we  
11 go about capturing it and understanding it?

12 Maybe I will just skip through these slides.  
13 You have them in front of you. We have also a  
14 written report that indicates how we assess it.

15 Basically, the methodology that we developed  
16 was about -- we went out and looked at 1,000  
17 combinations of models, and this is the band. The  
18 center line is what we might expect, minimum and  
19 maximum. And then as we -- here is the five  
20 companies that have been reviewed by the Commission  
21 and color-coded. Maybe I will just give you this  
22 indication: AIR is green, black is ARA, and so  
23 forth, Public Model in red.

24 THE CHAIRMAN: Can you go back one slide,  
25 please?

1 DR. JOHNSON: Sorry?

2 THE CHAIRMAN: I don't want to do this, but  
3 can you go back one slide?

4 DR. JOHNSON: Sure.

5 THE CHAIRMAN: Can you explain what the  
6 along-the-side axis, the zero through 16, what is  
7 that?

8 DR. JOHNSON: Okay, that's loss cost per 1,000  
9 for wood frame structures. And along the X axis  
10 are the counties ordered from lowest risk to  
11 highest risk on the right. So that's why the  
12 center curve goes up in an increasing fashion. And  
13 then depending on the sizes of the counties, the  
14 band on minimum to maximum can vary.

15 Here is the -- we have a color-coded scheme,  
16 so when you're looking at these plots you can  
17 assess what the loss cost per thousands are.

18 So let me just go to one. Here you see all of  
19 the results basically at the county level. And the  
20 points that are red, say above -- sort of in the  
21 low to moderate risk correspond -- those happen to  
22 correspond to the Public Model. You tend to see  
23 how things fall.

24 Occasionally you see points below or higher.  
25 Those are points that are interesting from the

1       standpoint of the audit. Let's look at that  
2       particular county. Why is that one so low compared  
3       to what we might expect?

4               So this gives you a sense, perhaps, of what  
5       the audit process is like. We have a lot of  
6       material to look at. We try to focus in on those  
7       counties that might represent potential issues.

8               And then what we have in these series applies.  
9       Here's just the results for the final version of  
10      the Florida Public Model, some at the low end,  
11      especially at the low-risk areas. You see those  
12      are above that max, at the higher end, maybe around  
13      towards the middle. Compare that to -- here is  
14      with AIR, which you will be hearing from later.  
15      They're in the green. They tend to be pretty well  
16      within the bounds. That's a company that's been  
17      around now for quite a while. Florida Public Model  
18      just came into being this last year for purposes of  
19      being reviewed by the Commission.

20              There is another one, ARA, which went through  
21      quite a bit of revisions from the previous year's  
22      model. So you can see, they bounce around a bit.

23              THE CHAIRMAN: Excuse me, sir. By the way,  
24      Members, you have only a black and white copy in  
25      front of you, so you can't follow this. We just

1 discovered this, and we will make color copies  
2 available to you.

3 I apologize, sir. Please continue.

4 DR. JOHNSON: Sure. Likewise, here is EQE in  
5 gold. Again, it's pretty much, if you're looking  
6 at the screen, anyway, tied to the -- around the  
7 midpoint. RMS, the blue, again, pretty well within  
8 the bounds.

9 Here is the -- red being the Public Model --  
10 and if you get the hard copy, you will be able to  
11 compare this -- versus the other four private  
12 models. You can kind of see where they -- it's not  
13 consistent across all the counties. So it's quite  
14 interesting to go through this and probe for  
15 purposes of auditing.

16 If you prefer to look at maps rather than  
17 little names at the bottom -- here you can see a  
18 graphic -- or a spacial representation. Of course,  
19 as you go farther south, the rates are higher in  
20 the southern part of the state than -- the loss  
21 costs are higher in the southern part than -- so  
22 this helps give a perspective.

23 And then another thing we've done -- again,  
24 this can help you wade through these mountains of  
25 data. This is color-coded. Red means that for

1       that particular county it was highest -- higher  
2       than the largest we saw across our 1,000  
3       combinations of models, and then the blue is below  
4       the minimum.

5               So, again, this can give you a sense of how  
6       things are distributed space -- I'm sure you're  
7       just looking at your own particular county. This  
8       gives you a sense of kind of probing further.

9               Another thing we found quite useful is, if you  
10      take the top five for an individual model, what's  
11      the top five loss costs, what are the bottom five,  
12      take that ratio, how does that stack up, here you  
13      see the -- for the most part, the private models  
14      fall within our range. The Public Model happened  
15      to have that value being rather smaller.

16              THE CHAIRMAN: Could you explain what that  
17      means, please?

18              DR. JOHNSON: In a sense, the low-risk  
19      counties' values are rather higher compared to the  
20      other models, and the high-risks are a bit lower.  
21      So, in a sense, it's -- the lower risks are paying  
22      what appears to be higher relative to the other  
23      modeling.

24              Chuck, go ahead.

25              MR. WATSON: Mr. Chairman.

1 THE CHAIRMAN: Yes, Mr. Watson.

2 MR. WATSON: Thank you. A simpler way to  
3 think of that is, the greater that ratio is, if you  
4 believe that ratio, then the more you're  
5 subsidize-- the low-risk areas are subsidizing the  
6 high-risk areas.

7 So if that number is very small, that means  
8 the northern part of the state is effectively  
9 subsidizing the southern part. If it's very high,  
10 then you're spreading the risk around more. So  
11 another way of thinking of it, the higher that  
12 number the more you're spreading the risk unevenly.

13 So that's almost, in effect -- you would  
14 expect the rates, like with ARA, which is very high  
15 at, what, 30, 35 -- you would expect the loss costs  
16 to be 30-something times higher than say Miami,  
17 than say Bradford County.

18 THE CHAIRMAN: Thank you.

19 DR. JOHNSON: Okay. So almost a wrap-up here,  
20 the models vary because of the decisions made in  
21 developing the models. And our job is to audit  
22 them and see if those decisions make sense, as well  
23 as looking at a lot of these calculations to probe  
24 in on those areas that appear of particular  
25 interest.



1           As Randy indicated, end of February we get the  
2           new submissions for the next wave of models. Our  
3           audit process will kick in full gear in March.  
4           We'll proceed to be going onsite. And then  
5           subsequently towards the summer, the Commission  
6           will meet to assess acceptability of the current  
7           versions, the latest versions of the model.

8           This is just indicating -- one thing here is  
9           that this whole process of auditing, the models  
10          change over the core site. This is what happened  
11          last year, indicating the -- that the solid points  
12          were the -- let's see, the initial -- again, I  
13          should look at the -- the 2.0 is the solid --  
14          well --

15          DR. DUMM: You moved from way down to the --

16          THE CHAIRMAN: I'm sorry, Dr. Dumm, can you --

17          DR. JOHNSON: I guess one thing to focus on,  
18          if you look at any particular county where there's  
19          a spread, that means, from the initial submission  
20          to the final version after subsequent revisions, it  
21          had managed to change quite a bit.

22          So that indicates that the models are influx  
23          during the course of the audits. So I actually --  
24          this was intended to -- TEACO questions, but it  
25          doesn't look like --

1 THE CHAIRMAN: That's -- actually, this slide  
2 is a very important one, if you can elaborate on  
3 that a little.

4 DR. JOHNSON: Okay.

5 THE CHAIRMAN: This is your last slide, I  
6 believe.

7 DR. JOHNSON: Right. And, in particular --

8 THE CHAIRMAN: Could you elaborate on these  
9 issues?

10 DR. JOHNSON: Sure, sure. And I'm sure my  
11 colleagues can chime in as well. Demand surge was  
12 just added this last year as part of the standards  
13 review process. So demand surge is included.

14 THE CHAIRMAN: I'm not sure all of the members  
15 know what demand surge is.

16 DR. JOHNSON: In the event that there's a very  
17 large storm and it puts a premium on materials for  
18 rebuilding, then prices can spike up a bit relative  
19 to that. So it really kicks in relative to the  
20 very large events.

21 That's now been studied further, so the  
22 modelers have put in aspects to try to capture that  
23 additional cost. But it's really related to the  
24 larger events.

25 MR. SIMONS: Mark, if I could just --

1 DR. JOHNSON: Go ahead, Marty.

2 MR. SIMONS: -- add that demand surge is  
3 just -- if you go back to Econonics 101, it's just  
4 the law of supply and demand. And when you have a  
5 major event, you just don't have enough adjusters  
6 in the state; they have to come from elsewhere; you  
7 can't put them up close to the event because the  
8 hotels may be destroyed. So it's really a supply  
9 and demand issue, that it costs more after a major  
10 event.

11 THE CHAIRMAN: You missed it? I'll make you  
12 the first question when we're done. Go ahead,  
13 commercial.

14 DR. JOHNSON: Then in terms of commercial  
15 residential, the primary scope of the Commission  
16 has been on residential. So that may be, at a  
17 future date, incorporated. That's another area for  
18 further consideration. These are really future  
19 investigation areas, rather than something we're  
20 talking about that's within it right now.

21 Climate models you hear about a lot in the  
22 media, and the study that we did is to try to  
23 assess existing models. A third of our results  
24 were related to climate models. Maybe risk  
25 loadings I'll will defer to my actuary insurance

1 expert.

2 Randy, do you want to talk about that?

3 DR. DUMM: Just as far as risk loadings are  
4 concerned, I think that is a major issue that's in  
5 front of your committee. And I think that one of  
6 the things we would like to leave your group with  
7 is the distinction between modeled loss costs and  
8 the risk load, because this risk load is something  
9 that sort of captures all the expenses in this  
10 process. Modeled loss costs would be one of those.

11 Just to go back to that commercial  
12 residential, because it is -- the important part of  
13 2004-2005, we have looked at commercial residential  
14 and creating standards for that part of the  
15 modeling process. And prior to that point in time,  
16 there was insufficient data on hand to do that.  
17 That's something we're going back and revisiting  
18 because of the 2004-2005 hurricane seasons.

19 DR. JOHNSON: As always, we're interested in  
20 what committees have to suggest for improving the  
21 process. The Commission, it's an open process.  
22 The committee meetings, when they go through  
23 revisions to the process, anyone is available to  
24 come in and offer their two cents worth.

25 The final slide was just the contact

1 information. And I think at that point if we could  
2 return to the questions if you'd like to.

3 THE CHAIRMAN: Great. We have about a half an  
4 hour for questions. A couple, two quick ones:  
5 Number one, to whoever this goes to, what is your  
6 opinion of the scientific basis for short-term  
7 models that assume Florida is currently in an  
8 active hurricane cycle, and have you looked at the  
9 recent NOAH report which appears to completely  
10 contradict that?

11 MR. SIMONS: I'd be happy to try and respond  
12 to that in less than a half an hour. When you're  
13 looking at short and long-term models, the  
14 Professional Team last year reviewed the RMS, what  
15 they called their medium-term model, which is  
16 really a look at five years into the future. So I  
17 will use that as an example of the short-term --

18 THE CHAIRMAN: Well, actually, that was my  
19 second question. So you can answer both of my  
20 questions right now.

21 MR. SIMONS: I'd be happy to. I hope I can do  
22 it appropriately.

23 The Professional Team found that the -- some  
24 of the methods used by RMS, we were concerned that  
25 there may have been some biases introduced into the

1 medium-term model. We communicated that to RMS on  
2 our audit exit interview and told RMS at the time  
3 that they had options and their options were to  
4 either withdraw the medium-term model and re-supply  
5 us with the long-term model, or they could go in  
6 front of the Commission and state their case in  
7 opposition to what the Pro Team found onsite. RMS  
8 decided at the time to resubmit their long-term  
9 model.

10 So as far as the Florida Commission goes -- I  
11 think this is an extremely important point -- the  
12 Florida Commission was never really presented with  
13 a short or medium-term model because RMS did decide  
14 to withdraw that model and submit the long-term  
15 model to the Commission. We do not know this year  
16 whether they will be re-submitting their  
17 medium-term model or not. But our job is to  
18 determine that the science is appropriate, and our  
19 job is to determine that there are no biases in the  
20 process.

21 I am not totally familiar with the NOAH  
22 project, but I think that you can read intense  
23 arguments by people who are positive that either  
24 side is correct. And I think that is why the role  
25 of the Commission is so important, because we base

1 everything on the scientific process underlying  
2 every question we ask them, every answer that they  
3 give us.

4 THE CHAIRMAN: So are you saying -- I  
5 apologize. So are you saying that the Commission  
6 has not looked at the validity of short-term  
7 models, or that you -- or are you saying that you  
8 have looked at and prefer the longer-term models?

9 MR. SIMONS: The Commission has seen the  
10 report of the Professional Team. Each time we  
11 complete an audit, we report to the Commission in a  
12 Professional Team Report. That report is fairly  
13 specific as to what we found and why we determined  
14 that we did not believe that we could find the RMS  
15 short-term or medium-term model acceptable.

16 I don't know that the Commission has done any  
17 detailed research specifically into short-term  
18 models, but there's a wealth of information in our  
19 Professional Team reports, and I'm sure that they  
20 all took them into consideration when we submitted  
21 it.

22 However, once it was submitted, RMS did  
23 withdraw that model. So the Commission really  
24 didn't have a formal presentation directly to the  
25 Commission on the short or medium-term models.

1 THE CHAIRMAN: Dr. Dumm, you wanted to  
2 comment?

3 DR. DUMM: Just to add to Marty's comments,  
4 last August we did have a presentation to the  
5 Commission on this issue of global warming related  
6 to climate change related to impact on catastrophic  
7 events, and as Marty indicated, the science is very  
8 divided in this area.

9 Dr. Hugh Willoughby from Florida International  
10 led that discussion. He's a Commission member,  
11 well-respected scientist in the area. So it was a  
12 very interesting session in looking at both sides  
13 of this debate. And it is a debate. It is a  
14 contentious debate.

15 We, as a Commission, have not taken a  
16 position, and I think it is incumbent upon the  
17 modeler to bring the models in front of the  
18 Commission to support the models that they're  
19 using. That is their responsibility in this  
20 particular process.

21 If we as a Commission felt that it was a  
22 superior approach to use short-term models, then we  
23 would require that as part of our standards. At  
24 this point in time, we do not.

25 THE CHAIRMAN: Because this is such a key



1 issue here, the issue of short versus long-term,  
2 I'm trying to pin down a clear answer. So the  
3 Florida Commission on Hurricane Loss Projection  
4 Methodology's position today is that you have  
5 approved only the long-term models and you have not  
6 approved any of the short-term models, that you  
7 believe that they have not yet carried the burden  
8 of proof? Is that what you're saying?

9 DR. DUMM: The modelers have not presented a  
10 short-term model to our Commission. I mean, that  
11 is a fact at this point.

12 MR. SIMONS: If I could take that one step  
13 further and say that the Commission has not  
14 disapproved any short-term models.

15 THE CHAIRMAN: Okay. One last question that  
16 the -- I recall in a couple of your -- in different  
17 approved models I saw one example where there was  
18 an over 2,000 percent difference in the result in  
19 the two models on one county, wood frame, for  
20 example. Can both models be accurate while showing  
21 differences of such great percentages?

22 DR. JOHNSON: Well, there's certainly a lot of  
23 numbers to look at. And you can find some of those  
24 particular, what appear to be, anomalies. But as I  
25 was going through the choices that were made for

1 wind fields or friction or so forth, you have one  
2 wind field that's highly -- say highly spread out;  
3 you have others that are rather more compact.

4 On any given event, overall the losses may  
5 look pretty good. It may look good across the  
6 whole battery, the whole full ensemble of different  
7 events. What happens, though, when you're trying  
8 to, you know, aggregate that, come up with a  
9 comprehensive assessment of the average annual loss  
10 cost, you can get some of those anomalies. And  
11 sometimes when you're doing those comparisons you  
12 may be looking at the minimum zip code in a county  
13 versus the maximum. So you have to be careful in  
14 terms of doing it. Obviously, those are ones we  
15 pursue and try to -- try to investigate.

16 But, in general, it's a little more  
17 complicated than just picking out those isolated  
18 ones. And obviously we're interested in those, but  
19 that's not necessarily a pure indictment of the  
20 model as a whole.

21 THE CHAIRMAN: Dr. Dumm.

22 DR. DUMM: I'll just add to that, also when  
23 you're looking at some of these changes that  
24 were -- there have been some circumstances,  
25 particularly with the Florida Public Model, where

1 we went back and looked at version 1.5 which was in  
2 place in 2006. They submitted a first version in  
3 2007, which is version 2.0.

4 And so you look at -- you may have gathered,  
5 in our quick motion through that one slide, looking  
6 at the impact of the audit process and what it does  
7 to loss costs because it's improving the output of  
8 the Public Model, you can see that impact. And  
9 then if you go back a year, you're going to capture  
10 whatever that model was doing at that point in time  
11 compared to this year.

12 So there are -- that's one exception, I think,  
13 to your question. If a model changed loss costs  
14 2,000 percent year to year to year, then that would  
15 be questionable.

16 THE CHAIRMAN: Thank you.

17 Chairman Atwater, do you have any questions?

18 SENATOR ATWATER: I would defer to the  
19 members, Mr. Chairman.

20 THE CHAIRMAN: Chairman Posey followed, I saw,  
21 by Senator Deutch, followed by Senator Alexander.

22 Chairman Posey, you are recognized, sir.

23 SENATOR POSEY: Thank you, Mr. Chairman. And  
24 I would like to request, if any of the members want  
25 them, that we could get color copies of those loss

1 ratio -- or the loss charts.

2 THE CHAIRMAN: Yes, we will have those  
3 provided to you.

4 SENATOR POSEY: Thank you. A fellow by the  
5 name of Gillie has been predicting storm pattern  
6 for a couple of years. He's been 100 percent more  
7 on target than you guys and the rest of the  
8 industry. I would like to hear from each one of  
9 you what your opinion of Gillie's prognostications  
10 are.

11 THE CHAIRMAN: Or from any of you.

12 MR. SIMONS: I think when you're looking at  
13 any individual prognostications over a short period  
14 of time -- and by "short period of time," I mean  
15 less than 1,000 years -- you can have vast  
16 differences in those projections.

17 SENATOR POSEY: Well, we know that. The  
18 insurance companies are using five years. They  
19 don't have any problem with that. You use  
20 thousands, they use five. This guy has been 100  
21 percent two in a row. Everybody else has been 100  
22 percent wrong.

23 MR. SIMONS: Well, they don't use five years  
24 in any modeling process that has been found  
25 acceptable by the Commission.

1 THE CHAIRMAN: Did anyone else wish to respond  
2 to --

3 SENATOR POSEY: It talks about Gillie. I  
4 mean, he's -- you know, I'd like to hear from  
5 y'all, he's talking about atmospheric wind patterns  
6 that, heretofore, I think, involve a little bit  
7 more science than just historical trashing of the  
8 landscape by storms. And it would seem like it  
9 would be a little bit credible.

10 THE CHAIRMAN: Mr. Watson, do you wish to  
11 respond?

12 MR. WATSON: Yes, thank you. I assume you're  
13 referring to the estimates of storm activity and  
14 the number of storms in a particular season.

15 SENATOR POSEY: Locations, yes.

16 MR. WATSON: And, you know, that's an area  
17 that I've done quite a bit of research in. In  
18 fact, I'm one of the peer-review editors for the  
19 Intergovernmental Panel on Climate Change. I have  
20 read the NOAH report.

21 And just to briefly comment on that, you know,  
22 in any given year you get literally hundreds of  
23 papers written on the field of climate change and  
24 hurricane impacts. And having read virtually all  
25 of them, I would suspect, even some that are pretty

1 far into the tinfoil hat realm, it's -- you will  
2 find there's a broad consensus in the middle.  
3 There's a fringe on either side.

4 The NOAH report that you have been  
5 referencing, you know, it's reputable folks, but  
6 they're not the mainstream of climate science. The  
7 gentleman that you referred to -- or the team that  
8 you referred to --

9 SENATOR POSEY: Mostly senators aren't really  
10 considered mainstream by the papers and all back  
11 home, but, you know, it's just a matter of  
12 perspective.

13 MR. WATSON: Sure. Yes, seasonal storm  
14 activity, there's a number of research groups.  
15 Getting it right one or two years in a row, or even  
16 five years in a row, doesn't impress me very much.  
17 I could point to the statistics that Dr. Johnson  
18 and I have that are better than the group that you  
19 referred to.

20 I still don't think they're very good in the  
21 sense that -- at one hearing I was asked at,  
22 someone asked, well, how do you know if you're  
23 right? I said, well, adjourn for 200 years and we  
24 will let you know. What we're talking about are  
25 long-term trends.

1           The other problem is, especially with the  
2           modeling we're referring to here, is that the  
3           history may not be a good guide into the future.  
4           If climate is, in fact, changing, then whether it's  
5           human or not -- we'll leave that argument aside --  
6           that with changes in climate we have observed  
7           historically, then these long-term models are based  
8           on the assumption that the future will be like the  
9           past 100 years or so.

10           Well, we know even the past 1,000 years hasn't  
11           been like the last 100 years. So the goal is, and,  
12           again, from a standpoint of modeling, is all models  
13           are bad, okay? Let's be -- and I'm a modeler.  
14           That's what I do.

15           I've written literally thousands of computer  
16           models. They're all bad. You can find some flaw  
17           in every single one of them. But the question is,  
18           are they useful; and by that, is it producing a  
19           useful estimate for the numbers you need to make  
20           decisions on?

21           So that raises a very important question for  
22           this committee in that when you talk about  
23           long-term/short-term -- when you talk about  
24           1,000-year models, realistically we're not trying  
25           to predict 1,000 years, what we're trying to do is

1 figure out what the probabilities are like if, for  
2 the next few years, even shorter or long term, the  
3 argument is a little bit misleading, because,  
4 obviously, we can't predict 1,000 years of climate  
5 with any great accuracy in terms of hurricane  
6 landfalls, but what we can do is come up with the  
7 average behavior of these storms.

8 I don't get too excited if one group or  
9 another gets -- nails a particular storm or a  
10 particular couple of years. Nature has a way of  
11 throwing us curves. But what we can do fairly  
12 accurately is predict the long-term behavior. And  
13 we can even do a pretty decent job on the behavior  
14 for a couple of years. The problem is the  
15 uncertainty.

16 And that's where you guys come in -- where the  
17 insurance folks come in, look at the modeling and  
18 go off in directions that maybe the  
19 modelers wouldn't be too -- speaking as a climate  
20 scientist doing modeling, would not be terribly  
21 happy with.

22 THE CHAIRMAN: Chairman Posey.

23 SENATOR POSEY: How often, because we're going  
24 -- hopefully we're undergoing a pretty rapid series  
25 of mitigations throughout the state on different



1 levels. How often do you update your information  
2 as to the hardness, the increasing hardness of this  
3 state?

4 MR. WATSON: Most -- and I think I can answer  
5 that. You know, most modelers do that on an  
6 on-going basis. I know that our research team,  
7 anyway, we actually update our vegetation patterns,  
8 for instance, every 30 days; because if you think  
9 about the land clearing and even just the impact  
10 that development has -- let's say you've got a  
11 house that used to be sitting out in the woods.  
12 Well, it's somewhat protected from low winds, it's  
13 got pine trees around. You figure if the winds are  
14 less than 70 miles an hour, the loads on that  
15 structure are fairly low.

16 Then let's say you come in and a new  
17 development clears all of that. Well, now it's  
18 exposed to those higher winds. So your probability  
19 of higher winds is higher. But the twist is, of  
20 course, if it's a pine tree, the top of the pine  
21 tree is going to come off at about 70 miles per  
22 hour.

23 So it's extremely complex. Most of the  
24 modelers update their databases at least on an  
25 annual basis. There are Commission standards that

1 address that issue in terms of making sure that  
2 they keep their internal databases up to date in  
3 terms of construction standards.

4 Of course, you know, when you talk about  
5 construction, just because it's hardened today, you  
6 build a house today on the coast and, you know,  
7 maybe it can withstand 130-mile-an-hour winds, but  
8 over time you get corrosion, you get vibration in  
9 the structure from trucks going by. So five years  
10 from now it may only stand up to 120-mile-per-hour.

11 So you've got to be careful. You can't just  
12 say, ah, it was built today to the standard, and,  
13 therefore, forevermore it will meet that standard.  
14 There's, you know, the maintenance of the structure  
15 and wear and tear of the --

16 SENATOR POSEY: Yes, the roof is going to go  
17 in a number of years like anybody else's. Do you  
18 break down -- when you look at damage, do you break  
19 down into detail as to wind damage, storm surge  
20 damage, and do you quantify it in those details  
21 generally for the companies?

22 MR. WATSON: The way the computer models work  
23 is, you're computing damage from phenomenon. So  
24 you'll have damage from winds; you'll have damage  
25 from actually rain intrusion into the structure;

1 and then you'll have damage from rising water,  
2 either from storm surge or river rain flooding.

3 Now, the way the insurance policies are  
4 generally written, especially for the U.S., the  
5 rising waters excluded -- that's handled by --  
6 through FEMA, through the whole -- the National  
7 Flood Insurance Program. If it's water that comes  
8 through your roof because of rain, it's covered as  
9 part of your policy.

10 So the models have to track those and do track  
11 those types of damage. The more sophisticated  
12 models actually track damage also in terms of  
13 debris. For instance, is it just the force of the  
14 wind that caused the roof to come off, or did the  
15 structure damage because of that pine tree that's  
16 in your front yard coming down on your house?

17 SENATOR POSEY: You know, I mean, we've  
18 wondered --

19 THE CHAIRMAN: Senator, final question.

20 SENATOR POSEY: -- when we've seen thousands  
21 of fully mitigated properties canceled, you know,  
22 how the insurance company can lose. I mean, they  
23 basically have no exposure on new construction,  
24 135-mile-an-hour stuff. The only thing would be a  
25 storm surge, which they wouldn't pay for anyway.

1 MR. WATSON: Well, again, that's getting a  
2 difference between the modeling. You know, the  
3 technical -- and that's something that you guys  
4 should really pay close attention to. There's the  
5 technical aspect of the modeling, which is  
6 actually, I would argue as someone who has worked  
7 in that field for 25 years -- I wrote my first  
8 model when I was in high school -- and the issue of  
9 the technical computer modeling, which has a  
10 certain level of uncertainty with it.

11 But then there's the policy issues of how you  
12 apply those models, and that cuts into the  
13 insurance realm. And you've hit an exact point,  
14 the models don't care, that's insurance  
15 policy.

16 SENATOR POSEY: Good answers. Thank you,  
17 Mr. Chairman.

18 THE CHAIRMAN: Thank you. Members, we have  
19 approximately 13 minutes left. I have Senators  
20 Deutch, Alexander, Ring in that order.

21 Senator Deutch, you're recognized, sir.

22 SENATOR DEUTCH: Thank you, Mr. Chairman, for  
23 several quick questions, if I may.

24 First, you spoke of RMS having submitted a  
25 short or medium-term model. Are there other

1 companies that have submitted short or medium-term  
2 models also?

3 MR. WATSON: None submitted. There are others  
4 that have them and use them. And the difference in  
5 how you do these models, it's largely that which  
6 years you choose to use as a baseline.

7 SENATOR DEUTCH: Okay. And --

8 MR. WATSON: And it makes a big difference.

9 SENATOR DEUTCH: Okay. So none of the others  
10 have submitted. You know that the others are out  
11 there. When did you first see these short and  
12 medium-term models?

13 MR. WATSON: They've been around effectively  
14 since the beginning of modeling, for at least 10 or  
15 15 years. Now, in terms of -- they have only  
16 started to be applied in the insurance industry  
17 relatively recently, but it's not a new development  
18 from a modeling perspective.

19 SENATOR DEUTCH: Right. And do you know why  
20 they've been applied only recently in the insurance  
21 industry? Do you know why they were first supplied  
22 to the insurance industry, or who might have  
23 requested that they start using these in the  
24 insurance industry?

25 MR. WATSON: You know, a lot of it comes down

1 to just the way the normal development process  
2 works, is that the science teams and the -- within  
3 the companies are researching these different  
4 aspects.

5 But I think the thing that really triggered it  
6 is -- and part of it's with the climate studies  
7 that you've heard of in that there's a lot of  
8 variability from year to year, and the models are  
9 now getting better at being able to predict that  
10 variability. So once you've got predicted value,  
11 then folks start getting interested in wanting to  
12 apply it.

13 SENATOR DEUTCH: Okay. Then, if I may, the  
14 reason that the RMS model -- you said the reason  
15 that the RMS model was rejected, or at least  
16 returned to them, was that it contained bias.  
17 Could you elaborate on what kind of bias that model  
18 contained?

19 MR. SIMONS: The Professional Team, when we  
20 were on site, we reviewed the process that was used  
21 by RMS. And what they did was, they brought in a  
22 panel of experts and they asked the experts some  
23 specific questions.

24 And in our Professional Team Report on that  
25 meeting, we described the fact that we believed

1       that the questions that were asked were -- they  
2       pointed -- they may have pointed the group of  
3       people toward higher rates --

4             THE CHAIRMAN:   Leading questions?

5             MR. SIMONS:   -- at the beginning of the  
6       process.

7             THE CHAIRMAN:   I see your heads nodding that  
8       they were leading questions?

9             MR. SIMONS:   Yes.

10            SENATOR DEUTCH:   Just finally then, the  
11       comment was made that all models are bad. The  
12       question is, are they useful, and isn't that a  
13       function of who's asking that -- who's asking that  
14       question; and if the question is being asked by  
15       those who might stand to profit from higher  
16       premiums, wouldn't it make sense for them to then  
17       want to use one of these models that might help  
18       them in reaching that goal?

19            MR. WATSON:   That question gets asked a lot,  
20       because if you look at these models you'll find  
21       some that are high, you'll find some that are low.  
22       So obviously if you're a consumer advocate,  
23       suddenly you get excited when you see a model  
24       that's low.

25            If you're maybe on the insurance side and

1       you're worried -- you know, take the profit issue  
2       out. If you're just concerned, well, I want to be  
3       careful because I don't want to go out of business,  
4       maybe you pick a high model.

5               That's why we developed the technique of using  
6       ensembles of hundreds, and in this case 900, almost  
7       1,000 models, to come up with what the ranges are.  
8       So, yes, it's possible that there's bias in the  
9       sense of, you know, the evil plotting of let's pick  
10      one that's high. But mostly it's, they're  
11      trying -- you're either trying to protect your  
12      interest on the high or low side. That's why just  
13      having one or two or even five models is a little  
14      bit of a problem.

15             SENATOR DEUTCH: Here's is my last question  
16      then, Mr. Chairman.

17             THE CHAIRMAN: Go ahead.

18             SENATOR DEUTCH: If the one model that was --  
19      the one short-term model that was submitted you  
20      thought was biased because it would lead to higher  
21      premiums, if I understand that correctly, no?

22             MR. SIMONS: No, no, sir. I didn't say that  
23      we thought it was biased because it would lead to  
24      higher premiums, I said that the process was biased  
25      because it pointed toward higher premiums.



1           There's another part to that, and that is that  
2           there are many different cyclical patterns that  
3           underlie the short or the long-term modeling  
4           process. And in order to come up with a shorter or  
5           medium-term model, it was the Professional Team's  
6           opinion that you should take into account all of  
7           those cycles. And we believed that perhaps RMS had  
8           based its short-term or medium-term model on  
9           partial cyclical patterns.

10           THE CHAIRMAN: Senator Deutch, they were  
11           saying that it was not the outcome that they  
12           thought was biased, it was the process that was  
13           being used to come up to reach that outcome --

14           MR. SIMONS: Thank you.

15           THE CHAIRMAN: -- that was biased.

16           DR. DUMM: But I think, just to clarify that a  
17           little bit farther, we as a Commission did not  
18           reject the RMS model. That needs to be understood.  
19           They submitted it to the audit process, the  
20           auditors had some problems with it, they withdrew  
21           it and made a change to go to a long-term position.

22           SENATOR DEUTCH: And then finally -- and this  
23           really is my last question -- does the -- would it  
24           make sense -- I understand that you rejected it for  
25           those purposes, but would it make sense for an

1 insurance company to use a short or medium-term  
2 model to determine how much reinsurance to buy?  
3 And then if you could comment on whether you've  
4 seen any indication in the industry as to the  
5 likelihood that perhaps the reinsurance industry  
6 may have either requested, suggested, encouraged,  
7 or not, the use of the short-term models by the  
8 insurance companies in determining that amount of  
9 reinsurance to purchase.

10 MR. WATSON: Actually, if I could -- I'm sure  
11 Marty will probably have a couple of words -- but,  
12 Mr. Chairman, if I could pull up one slide, I think  
13 that would answer a good bit of your questions  
14 here.

15 THE CHAIRMAN: I technically don't know how to  
16 do that; but if you can do it, great.

17 By the way, Members, we found out you have  
18 been provided with the colored slides, but they're  
19 in the clear-colored book that has all of the color  
20 slides.

21 MR. SIMONS: While he's putting that together,  
22 I would like to just say one thing relative to  
23 that -- the question itself, and that is that the  
24 reinsurers have much greater control over the use  
25 of the model in the reinsurance premium calculation

1           than the insurance company does.

2           It's the reinsurance company that decides  
3           which model it's going to use to develop the funds  
4           that it needs to bring \$40 billion to the table.

5           SENATOR DEUTCH: Mr. Chairman, but then how  
6           does --

7           THE CHAIRMAN: Senator Deutch, last question  
8           really this time.

9           SENATOR DEUTCH: Yes. But how does -- when  
10          you say it's the reinsurance companies that  
11          determine which models to use, does that mean that  
12          the reinsurance companies would determine that it  
13          would be appropriate to use the short-term models  
14          in this instance?

15          MR. SIMONS: The reinsurance companies have,  
16          in fact, used the short-term models. And you have  
17          two parts to this process: You have the part  
18          that's regulated, and you have the part that's  
19          really -- I'm not going to say it's not regulated;  
20          but what the OIR is confronted with is that they're  
21          presented with base loss costs that are developed  
22          from the models that have been found acceptable by  
23          the Florida Commission. They're also presented  
24          with insurance companies' expenses. And included  
25          in the insurance companies' expenses are

1 reinsurance expenses.

2 So the insurance company is out in the market  
3 just as if a homeowner was out in the market buying  
4 insurance for his own property. And the  
5 reinsurance company comes in and says, we've got  
6 \$20 billion we're willing to bring to this process,  
7 this is how much we want back for it.

8 And I think that the presentation made earlier  
9 covered that extremely well, that, yes, it's not  
10 necessarily a cyclical thing, it's a payback thing.  
11 And I thought that was an excellent, excellent  
12 analogy to bring to this group, is that reinsurers  
13 control that expense part.

14 THE CHAIRMAN: And, by the way, under Florida  
15 law, that would be prohibited. Florida insurance  
16 companies cannot charge more in the future to make  
17 up for past losses, but the reinsurers, since  
18 they're not regulated, apparently can and do.

19 DR. DUMM: I just wanted to add to that  
20 comment, Senator, if I could, is -- you look at the  
21 reinsurance industry going back to 2004 -- and I'm  
22 not here as a defender of the industry -- but they  
23 have been very vocal about this relationship  
24 between global warming, climate change and impact  
25 on catastrophic event.

1           Whether that is a believer because of the  
2           result or a believer in global warming, climate  
3           change, cat. event, regardless, they've been very  
4           aggressive about that particular position, whether  
5           it's Lord Levene, CEO of Lloyd's, Munich Re,  
6           Hanover, or Munich Re or Swiss Re, they all are  
7           very, very clear in their position.

8           So I think given the option, given their  
9           belief system, they would use the short-term model.  
10          Again, whether it's to get the price they want or  
11          whether it's because of this belief in the  
12          connection is an open question.

13          THE CHAIRMAN: Members, we have about four  
14          minutes. We have Senators Alexander, Ring, Fasano,  
15          Bennett in that order.

16          Senator Alexander, you're recognized.

17          SENATOR ALEXANDER: I have just a couple of  
18          questions. Earlier on you said you-all's job was  
19          not to be high or low, but to be as accurate as  
20          possible, that's the charge, and that's not  
21          affected by politics, just pure science-based  
22          decision-making. Is that accurate?

23          DR. DUMM: That's correct.

24          SENATOR ALEXANDER: And if you have, for  
25          whatever reason, not required or not approved

1 models containing revisions for the change in  
2 measured global temperatures, is it then your  
3 position as a commission that these will not  
4 positively or negatively affect the past or future  
5 experience on storms versus the past?

6 Because essentially if all you've done is  
7 models, quote, long-term based on the past stream  
8 of data for 1,000 years, or whatever it is -- and I  
9 think we have all seen global warming charts that  
10 look something like this model where we're going  
11 off the chart here. I don't know whether it's true  
12 or not.

13 But that would certainly say to me that  
14 something has changed that very well might affect  
15 the patterns that we will experience high or low.  
16 I don't know what it is.

17 So in that you haven't either required that  
18 sort of a component to a long-term model, or, you  
19 know, encouraged to the point of submission a  
20 short, medium-term model, I mean, how do you as  
21 scientific-based, not high, not low, calculate in  
22 how you think this will go? I mean, I don't know.  
23 That's what we're looking to y'all to to tell us.

24 THE CHAIRMAN: Gentlemen.

25 DR. DUMM: Just -- I'll lead the comment here,

1       and then I'm sure you'll hear from my  
2       better-positioned colleagues. I think that the  
3       problem we have is that we -- I think everybody  
4       agrees, we're in a period of global warming, as you  
5       indicated with the charts you would hold up and you  
6       would see a distinct pattern there.

7               The problem is in making the connection --  
8       connecting the dots through to the catastrophic  
9       event. And that's what the near-term model  
10      proponents would say, is that that line is solid,  
11      it is clear, it is self-evident.

12             There's another group that says, there's no  
13      connection at all. And so we're sitting in a  
14      position of looking at both arguments and waiting  
15      for one to be proved right, and that could take a  
16      period of time.

17             So to answer your question as best as I can,  
18      there is no clear connection based on what we have  
19      seen looking across global warming, climate change  
20      and catastrophic event.

21             AIR, you'll hear from them in a second, they  
22      have got a position piece out talking about a  
23      short-term model, and I would encourage that you  
24      ask them about their results, because they indicate  
25      that although they do provide that particular

1 service, it is not something that they would  
2 promote given their preference for the long-term  
3 models. Even within the modeling community,  
4 there's this debate about which is the correct  
5 approach.

6 MR. SIMONS: If I could just add one thing to  
7 that, and that is that there is not only  
8 disagreement relative to the effect of global  
9 warming overall on hurricane frequencies, I think  
10 the bigger argument is becoming how the effect is  
11 on landfalling hurricanes.

12 And, in fact, global warming may, in fact, be  
13 changing the direction of some of these hurricanes.  
14 And it may, it may have a positive effect for the  
15 state of Florida in that perhaps some of the bigger  
16 hurricanes may be moved elsewhere. So there are  
17 many issues that have to be determined.

18 And the Commission is established in such a  
19 way that the science has to back up what they  
20 propose to do. I've been in regulation for more  
21 than two decades, and I believe that everybody in  
22 this business, especially in our side of the  
23 business, needs to look at this as if we were  
24 paying premiums.

25 I live in South Carolina. I don't pay Florida



1 premiums, but I look at each of these questions as  
2 if I'm representing the homeowner, the property  
3 owner, the people that are buying insurance in the  
4 state of Florida. And I think we need those  
5 questions answered before we allow those changes,  
6 whether they're increases or decreases.

7 THE CHAIRMAN: Members, we're pretty much out  
8 of time.

9 SENATOR ALEXANDER: Well, one last question.  
10 On this Florida Public Model that's been approved  
11 by you guys, it looks like in some of the slides  
12 you've got here that it is much more what I'd call  
13 flat across the -- I guess that's the risk  
14 percentage or risk cost per county. It's a lot  
15 flatter than the other models.

16 And then I'm looking at this one where you've  
17 got all kind of different versions, and that puppy  
18 jumps all over everywhere. I mean -- and you  
19 almost have -- you have risk down here in some of  
20 these, in Marion County, that says it is as  
21 significant as some of the south Florida counties,  
22 or, you know, 80 percent of Dade County.

23 I mean, how's that? I've never heard of, in  
24 the history of Florida, a hurricane of any  
25 consequence getting to Marion County.

1 THE CHAIRMAN: Members, you'll need to answer  
2 quickly, if you can, please.

3 MR. WATSON: I guess if I can jump in, a quick  
4 answer to that is, it's important to recognize that  
5 the standards -- you can have a model that meets  
6 the standards that has a lot of variability in it.

7 And what we're finding over time is that, you  
8 know, the standards are improved. And so you may  
9 have a model that comes in and meets the existing  
10 standards, but then you look at it and go, wow,  
11 maybe we need a new standard for X or Y.

12 So you'll see the standards change this year  
13 just like you have in every previous year, and it  
14 may address some of those issues.

15 MR. SIMONS: Once again, I'd like to add  
16 something to that, and that is, I referenced  
17 earlier the Professional Team Report that we  
18 provide to the Commission after our onsite visit.  
19 I believe those questions are detailed in our  
20 Professional Team Report of the various audits we  
21 made on the Florida Public Model.

22 And I think there's a wealth of information in  
23 there relative to each of the changes that was made  
24 following our first, second and third visit with  
25 the Public Model.

1           SENATOR ALEXANDER: Well, it's just hard for  
2 me to imagine --

3           THE CHAIRMAN: Senator, we're way out of time.

4           SENATOR ALEXANDER: -- Marion County and  
5 Monroe County are four versus six. I mean, that  
6 just seems pretty strange.

7           THE CHAIRMAN: Okay. Gentlemen, thank you for  
8 being here.

9           Senators Ring, Fasano, Bennett, again, I  
10 apologize, we only have an hour and 12 minutes  
11 left.

12          SENATOR FASANO: Mr. Chairman, could I ask a  
13 question of the staff --

14          THE CHAIRMAN: Sure, go ahead.

15          SENATOR FASANO: -- since we can't ask  
16 questions of the people who are testifying? The  
17 Florida Commission on Hurricane Loss Projection  
18 Methodology, when was that created? Who appoints  
19 these individuals to that Commission?

20          MR. DEFFENBAUGH: Senator Fasano, I believe  
21 one of the slides had answered that. Let me just  
22 flip to it.

23          Well, if you look at page 5 behind tab 4, it  
24 shows who appoints the three actuaries, who are the  
25 experts appointed by the CFO, and then the last

1 four bullets are persons who are made members by  
2 virtue of their office. But then you're also  
3 hearing from Professional Team members, and these  
4 are hired by the Commission, contracted with by the  
5 Commission.

6 SENATOR FASANO: So these individuals are  
7 hired --

8 MR. DEFFENBAUGH: Well --

9 SENATOR FASANO: -- some of them are?

10 MR. DEFFENBAUGH: -- the two on the right are  
11 members, Dr. Nicholson and Dr. --

12 SENATOR FASANO: The reason why I ask is I  
13 notice one of them doesn't even live in Florida.

14 MR. DEFFENBAUGH: That's correct.

15 SENATOR FASANO: Right, yes. Just out of  
16 curiosity, also maybe staff can -- they're showing  
17 here on page 11 total costs to date, over \$4.2  
18 million. What costs are derived from that? What  
19 is that cost, do you know?

20 MR. DEFFENBAUGH: I believe that's referring  
21 to the expenses of the Commission since its  
22 creation in 1996 --

23 THE CHAIRMAN: '4.

24 MR. DEFFENBAUGH: I'm sorry, '95, 19--

25 SENATOR FASANO: Maybe staff can help me with

1       this. It is my understanding that these models  
2       that are created by this Commission is what is --  
3       is what begins the process, is that right, as far  
4       as what reinsurance -- what the cost will  
5       reinsurance be, and then the cost of eventually  
6       what the insurance companies will charge or be  
7       approved based on the models, then eventually what  
8       they --

9           THE CHAIRMAN: They don't create the models.

10          SENATOR FASANO: Well, let me finish, Mr.  
11       Chairman, if I may -- and then eventually the  
12       homeowner. I mean, somebody is paying a premium  
13       based on models, is that correct?

14          MR. DEFFENBAUGH: That serves as a basis for  
15       developing the premiums. And, you know, models, I  
16       mean, predated the Commission. I mean, really  
17       the -- I mean, the Florida Legislature created the  
18       Commission because the models were being developed  
19       and we wanted a body to review those models.

20          SENATOR FASANO: And these are the models that  
21       OIR spoke about at the last meeting saying that  
22       they believe that these are the only models that  
23       should be used in determining whether insurance --  
24       that the insurance companies should be using, is  
25       that correct?

1 MR. DEFFENBAUGH: If they're determined to be  
2 acceptable by the Commission, then the law says  
3 that they are admissible and relevant in a rate  
4 hearing if OIR has all of the assumptions.

5 SENATOR FASANO: So I guess the bottom line,  
6 Staff, would be that if the model is incorrect  
7 somewhere down the road -- if the model is  
8 incorrect, the homeowner could pay the  
9 consequences?

10 MR. DEFFENBAUGH: I guess that is possible,  
11 yes.

12 SENATOR FASANO: Thank you.

13 (The Chairman is now Senator Atwater.)

14 THE CHAIRMAN: Thank you to our guests who  
15 came on the panel today. And we do note that you  
16 came a significant distance, or some are very close  
17 by. And I would hope that you might, as we begin  
18 the session -- would be available to return to the  
19 Banking and Insurance committees. I think there  
20 will be a similar number of questions. Thank you.

21 Members --

22 SENATOR GELLER: By the way, my script says  
23 I'm supposed to turn over the Chair to Senator  
24 Atwater here, and I'm following the script again.

25 THE CHAIRMAN: Members, we would now invite up

1 to visit with us members of AIR Worldwide  
2 Corporation. And if those individuals are here, if  
3 they would please come forward. Thank you.

4 Members, as a reminder, we've invited  
5 representatives of a very familiar private  
6 insurance hurricane loss modeling company, AIR  
7 Corporation. We would have liked to have heard  
8 from additional modeling companies; but due to our  
9 time limitations, we've limited it to AIR today.  
10 Four of the insurance companies that testified at  
11 our last meeting said that they used the AIR loss  
12 models.

13 With us today are David Lalonde, Senior Vice  
14 President; John Rollins, Vice President; and Dr.  
15 Peter Dailey, Director of Research in Atmospheric  
16 Science.

17 Gentlemen, as you know, we are taking all  
18 testimony under oath. Are you prepared to offer  
19 your testimony under oath today?

20 MR. ROLLINS: Yes.

21 MR. LALONDE: Yes.

22 DR. DAILEY: Yes.

23 THE CHAIRMAN: Gentlemen, if you would all  
24 please raise your right hand. I will ask this  
25 question, you can answer it together, and then I

1 will ask each of you individually to affirm the  
2 answer.

3 (Witnesses sworn en masse.)

4 THE CHAIRMAN: Mr. Dailey?

5 DR. DAILEY: I do.

6 THE CHAIRMAN: Mr. Lalonde?

7 MR. LALONDE: I do.

8 THE CHAIRMAN: Mr. Rollins?

9 MR. ROLLINS: Yes, I do.

10 THE CHAIRMAN: And all have affirmed that.

11 Mr. Lalonde or Dr. -- Mr. Lalonde, did you  
12 wish to begin this presentation, or how would  
13 you-all like to begin with your presentation from  
14 the company's perspective?

15 MR. LALONDE: We have some prepared remarks  
16 that we'd like to make. We should take less than  
17 15 minutes and leave plenty of time for questions.

18 THE CHAIRMAN: That would be very helpful.  
19 Will it be yourself, sir, or will the others be  
20 participating in the opening comments?

21 MR. LALONDE: Myself and Dr. Dailey.

22 THE CHAIRMAN: Okay. And if you would prefer  
23 to do it either from your seat or from the podium,  
24 it's at your call.

25 MR. ROLLINS: Mr. Chairman, as long as our



1 slides are available, just tell Mr. Lalonde how to  
2 cycle through the slides --

3 MR. LALONDE: Yes.

4 MR. ROLLINS: -- because the slides will  
5 travel with the presentation of opening statements.

6 THE CHAIRMAN: All right. Very good.

7 Mr. Deffenbaugh, would you be able to do that?

8 MR. LALONDE: I believe we prepared -- or  
9 provided the slides in advance, and they should be  
10 in your package.

11 THE CHAIRMAN: While we're getting that  
12 technically up on the screen, Mr. Lalonde, would  
13 prefer to just go ahead and begin? Would you like  
14 to take us to -- we would be then beyond tab 5,  
15 Members.

16 MR. LALONDE: Okay, behind tab 5.

17 THE CHAIRMAN: Right, behind tab 5.

18 MR. LALONDE: If you will work on the  
19 technical details, then I can start.

20 THE CHAIRMAN: There we go. Thank you, sir.  
21 I appreciate it.

22 MR. LALONDE: Good morning, Co-Chairs Atwater  
23 and Geller and senators serving on the Florida  
24 Senate Select Committee on Property Insurance  
25 Accountability. Thank you for the opportunity to

1       come before the Committee today and assist with  
2       catastrophe modeling topics.

3             My name is David Lalonde. I'm Senior Vice  
4       President of AIR Worldwide Corporation, a  
5       catastrophe modeling firm headquartered in Boston.  
6       With me today are Dr. Peter Dailey, our Director of  
7       Atmospheric Science; and John Rollins, Vice  
8       President in our Tallahassee office.

9             In my discussion today, I will introduce AIR  
10      and discuss our approach to catastrophe modeling.  
11      Next, Dr. Dailey will address the science behind  
12      the models. I will then discuss the many ways in  
13      which AIR models have been and continue to be  
14      subject to independent review.

15            Finally, together with John Rollins, an  
16      experienced Florida property insurance actuary, we  
17      believe we can answer most of the Committee's  
18      questions regarding the issues we were asked to  
19      address.

20            AIR pioneered the development of probabilistic  
21      catastrophe modeling as an alternative to the  
22      standard actuarial rule of thumb approaches on  
23      which insurance companies had relied for the  
24      estimation of potential catastrophe losses. In  
25      1987, AIR introduced the modeling methodology based

1 on simulation techniques and mathematical  
2 approaches long accepted in a wide variety of  
3 scientific disciplines.

4 Over 20 years of research and development has  
5 significantly broadened our understanding of the  
6 financial effects of hurricanes, earthquakes and  
7 other natural catastrophes, and our collective  
8 experience. We serve over 400 organizations in  
9 both the private and public sectors from offices  
10 around the world, including one here in  
11 Tallahassee. Our methods are highly  
12 interdisciplinary, bringing together more than 200  
13 professionals, 30 or more with Ph.D.s in their  
14 field, and many others with advanced degrees.

15 The computer simulation approach, whereby we  
16 simulate thousands of potential hurricanes and  
17 estimate the potential damages and insured losses  
18 that can occur, holds many advantages: First, it's  
19 able to capture the effects of changes over time in  
20 population patterns, building codes, amounts  
21 insured and construction costs. Second, it  
22 provides a complete picture of the probability  
23 distribution of losses rather than just estimates  
24 of the PML or average annual loss. Finally, the  
25 simulation methodology provides a framework for

1 performing sensitivity analyses.

2 The models are based upon detailed data  
3 gathered from historical catastrophic events.  
4 Where historical data is either limited or not  
5 available, the models use science to fill the gaps.  
6 This allows for analyses that consider a wide range  
7 of possible forward-looking scenarios, thus leading  
8 to more stability in the estimated expected annual  
9 loss.

10 The model output is one of several sources of  
11 information companies are using for managing their  
12 distribution of exposure, analyzing the effects of  
13 policy conditions, developing appropriate insurance  
14 rates and underwriting guidelines and making  
15 decisions regarding the transfer of risk. The same  
16 model output is used by all interested parties when  
17 negotiating the assumption and transfer of risk.  
18 The output is not biased to favor any party to the  
19 negotiation.

20 The experience of 2004 and 2005 are recent  
21 reminders that the risk of loss from hurricanes is  
22 real. At the same time, the loss estimates  
23 produced by the models continue to increase due to  
24 the ever-increasing exposures in catastrophe-prone  
25 regions of the country.

1           The increases are driven primarily by  
2           increases in the number and value of insured  
3           properties. These demographic trends have resulted  
4           in large increases in the total insured value of  
5           properties in the coastal areas. AIR estimates  
6           that the value of properties in coastal areas in  
7           the United States has roughly doubled over the last  
8           decade.

9           It's important to keep in mind that  
10          catastrophe models can only measure risk. They  
11          can't change it. Only mitigation efforts will have  
12          an impact on the actual level of loss, risk of loss  
13          from natural disasters.

14          I will now ask Dr. Dailey to discuss the  
15          science and assumptions behind AIR's hurricane  
16          modeling and address the updating of our models,  
17          including research at AIR, related to the current  
18          state of the warm sea surface temperatures in the  
19          Atlantic basin.

20          They're still working on it. You can refer to  
21          slide 4.

22          DR. DAILEY: Okay.

23          MR. LALONDE: We're on slide 4 now, as far as  
24          the information, Members.

25          DR. DAILEY: As David mentioned, I'm AIR's

1 Director of Atmospheric Science, and I lead various  
2 research and modeling projects at AIR. I lead all  
3 the development activities related to AIR's U.S.  
4 Hurricane Model, and I direct several projects in  
5 emerging research, one of which I'll have a chance  
6 to discuss with you today.

7 AIR develops catastrophe models used to  
8 address a number of key questions, including  
9 location, size, frequency of potential future  
10 catastrophic events. By combining mathematical  
11 representations of the natural occurrence patterns  
12 and the characteristics of hurricanes, tornados,  
13 earthquakes, severe winter storms and other  
14 catastrophes with knowledge about property value,  
15 construction type, occupancy classes, and about the  
16 coverages provided, the simulation models provide  
17 information to companies concerned with the  
18 potential for large losses before they occur.

19 The purpose of catastrophe modeling is to  
20 anticipate the likelihood and severity of potential  
21 future catastrophic events and how they will impact  
22 losses to policyholders so that companies can  
23 appropriately prepare for their financial impact.

24 So, just to clarify, catastrophe models are  
25 not developed in order to predict the level of

1 future storm activity which will occur over the  
2 next one or several seasons. In essence, a  
3 catastrophe model estimates the climatological risk  
4 posed by a particular peril; and in the case of  
5 today's discussion, the risk Atlantic hurricanes  
6 pose to the state of Florida.

7 Now, because the climate is non-stationary, or  
8 always changing, hurricane activity also changes in  
9 response to dynamic climate signals. For example,  
10 everyone knows that each hurricane season is  
11 different from a variety of perspectives, and that  
12 is due to the fluctuations in various aspects of  
13 the climate that influence hurricane development.  
14 These climate signals include, for example, the  
15 warmth of the ocean surface which serves as the  
16 fuel for hurricanes, and the level of atmospheric  
17 wind shear which inhibits storms from forming and  
18 intensifying.

19 In order to better understand how climate  
20 influences seasonal activity, we've evolved a  
21 research program which has its roots in  
22 climatology. In other words, is the climate  
23 changing dramatically, and if so, how do climate  
24 shifts influence hurricane risk? Our research of  
25 projects over the past few years have focused on

1 three fundamental questions -- and this would be  
2 the second slide in your handout -- first, if  
3 Atlantic tropical cyclone climatology is  
4 non-stationary, what are the key climate signals  
5 which cause it to fluctuate? It's well known that  
6 climate itself is non-stationary, but how about the  
7 features of the climate that bring about tropical  
8 cyclones?

9 Some scientists agree that the warmer the sea  
10 surface temperatures, also known as SSTs, the more  
11 likely storms will form and the more intense they  
12 will become. Most of the relevant research in this  
13 area relates to hurricanes over the open ocean, not  
14 hurricane landfall. But climatologically speaking,  
15 this does make sense, but it's not a deterministic  
16 statement.

17 Many historical hurricane seasons have had  
18 warmer than average SSTs, but it produced fewer  
19 than the average number of hurricanes. The 2006  
20 and 2007 seasons are recent examples. It turns out  
21 that SSTs, the most highly correlated of climate  
22 signals related to hurricane activity, can only  
23 explain a small portion of year-to-year  
24 fluctuations in activity. All other signals  
25 combined, like ENSO, the El Nino Southern



1        Oscillation, the NAO, the North Atlantic  
2        Oscillation, and the Saharan Air Layer, which  
3        describes dust storm activities from the Sahara  
4        Desert, altogether produce the vast majority of  
5        variation we see from year to year. Most of these  
6        climate mechanisms are difficult to predict beyond  
7        a season, thus making it difficult to forecast  
8        activity beyond a year.

9                Second, given that most of the scientific  
10       research revolves around the impact of climate on  
11       Atlantic basin activity, how does that activity  
12       relate to landfall risk? I've spoken so far only  
13       about the impacts of climate on tropical activity  
14       in the Atlantic Ocean, but one can ask the  
15       question: If a warmer than average ocean tends to  
16       produce X percent more hurricanes than average,  
17       does this mean we should expect the same level of  
18       increase in hurricane landfalls in the United  
19       States, in the state of Florida?

20               As it turns out, the question is not a simple  
21       one. Naturally occurring environmental feedbacks,  
22       some well understood and some not so well  
23       understood, may mask the effects of a warming ocean  
24       when it comes to landfall activity. For example,  
25       if a warm ocean modifies the airflow that controls

1 storm movement, then one might see a different  
2 level of impact at landfall than what's observed  
3 over the ocean.

4 The relationship between basin activity and  
5 landfall activity is a hot topic these days, partly  
6 because it focuses climate research on what's  
7 important, namely the effects on people and  
8 property, but also because it's a very challenging  
9 scientific question which requires an intimate  
10 understanding of the physics and strict quality  
11 control on the data used in the analyses.

12 Finally, third, how does time scale relate to  
13 assessments of risk? In other words, how does the  
14 risk in the upcoming hurricane season relate to the  
15 risk over the next several seasons and to the risk  
16 through the end of the century? It is critically  
17 important in examining these issues that one  
18 maintains perspective on timescale.

19 The key climate signals which influence  
20 hurricane activity in the coming season may be very  
21 different from those affecting the next several  
22 seasons, and again different from those affecting  
23 climate projections like those contained in the  
24 IPCC report through the end of the 21st century.

25 To bring a timescale perspective to the risk,

1 AIR is extending its research program to study the  
2 impacts of climate at timescales beyond five years.  
3 Realize that the longer the timescale, the higher  
4 the degree of uncertainty. Thus, one can say more  
5 about the expectations for the coming season than  
6 for the next five seasons and certainly for  
7 hurricane activity in the year 2050 or 2100.

8 I only have limited time today to discuss  
9 AIR's original research in the area of climate and  
10 hurricane risk, but I can certainly get into more  
11 details during the Q and A. For now, I'd just like  
12 to show a graphic which highlights some of our key  
13 focus areas. And this would be the subsequent  
14 slide.

15 THE CHAIRMAN: Members, that's the sixth slide  
16 back in the packet, the one with the map of the  
17 Carribean.

18 DR. DAILEY: What you're looking at is a view  
19 of the Atlantic Ocean and the coast of North  
20 America. Each gray dot indicates a starting  
21 location, or what we call a genesis point, of a  
22 tropical storm contained in the most dependable  
23 part of the historical records, specifically from  
24 1948 to present.

25 The color contours, or if you have a gray

1 scale version, the gray scale contours, reflect the  
2 density of these points known as genesis density.  
3 The red hot spot in the Gulf of Mexico indicates  
4 that historically most tropical storms have  
5 developed over the Gulf of Mexico, but also a  
6 substantial number have developed over a band of  
7 tropical latitudes extending to the coast of  
8 Africa. And this zone is meteorologically known as  
9 the Main Development Region, or the MDR.

10 Now, in examining genesis, we've come across  
11 several interesting aspects of Atlantic basin  
12 climatology. First, note that the region of  
13 relatively low genesis around the Caribbean  
14 Islands. Now, there are several plausible reasons  
15 why storm development is suppressed here: First,  
16 this is where Atlantic wind shear tends to be  
17 highest, and recall that wind shear prevents  
18 tropical cyclones from intensifying. Second, during  
19 El Nino years, years in which the Pacific waters  
20 off the coast of Peru are periodically warm, wind  
21 shear increases most sharply in this part of the  
22 Atlantic.

23 So this is one reason why researchers are  
24 finding that under global warming scenarios  
25 projected to the end of the century, El Nino-like

1 conditions could become more frequent, which would  
2 intensify and expand this shear region and lead to  
3 the supression of tropical activity. In fact, some  
4 scientists have concluded that the net effect of a  
5 climate that warms to levels projected to the end  
6 of the century would mean an overall decrease in  
7 Atlantic hurricane activity.

8 Now, to understand how changes in genesis  
9 relate to changes in landfall risk, one must first  
10 analyze how genesis patterns change from year to  
11 year and then determine the probability of storms  
12 making landfall from key genesis regions.

13 As it turns out, the high density of tropical  
14 storms in the Gulf of Mexico may be less important  
15 for the risk in Florida than storms originating  
16 from the MDR. The reason is that storms developing  
17 in the Gulf on average have much less time to  
18 intensify to hurricane strength than those  
19 originating over the open Atlantic. And this is a  
20 find about climate, not weather. So it applies to  
21 mean or expected conditions, not to individual  
22 events.

23 Now, everything you see here is based on  
24 historical data analysis, not forecast or  
25 simulation. A great deal of valuable work can be

1 done by taking advantage of the full historical  
2 record. That does not mean there are no data  
3 issues, however. The early part of the Atlantic  
4 record, especially from where it begins in the  
5 1850s to the middle part of the 20th century, has  
6 likely undercounted Atlantic storms which were  
7 missed by ships and buoys and were not observed by  
8 modern day satellites.

9 For this reason, we have done sensitivity  
10 testing to measure the impact of the sample size,  
11 and our high-level conclusions do not change. We  
12 did finally settle on using the period from 1948 to  
13 present for most of our analyses since this  
14 represents a reasonable mix of sample size and data  
15 quality.

16 Historical landfall data can be used to  
17 determine how hurricane risk in Florida is  
18 influenced by the climate; but because of  
19 limitations and potential deficiencies in the data,  
20 it's important to determine whether the results of  
21 such an analysis makes sense from a meteorological  
22 point of view.

23 This is why genesis is so important. By  
24 determining the source regions for Florida  
25 landfalls and how these source regions change with

1 climate, one can connect the effects of climate on  
2 landfall to the physical influences of climate on  
3 storms, how they develop and how they form.

4 Connections between the historical data, the  
5 statistics and the meteorology require close  
6 scrutiny before moving on to modeling how losses  
7 might be influenced in coming years.

8 AIR has paid very close attention to these  
9 relationships and the uncertainties associated with  
10 each step in the modeling process. In the end, the  
11 limitations of the historical record come with a  
12 price. Namely, in the period from 1948 to present,  
13 the Atlantic has been warmer than average in  
14 roughly half those seasons, which means any  
15 hurricane climatology based on a warm ocean  
16 condition is based on a smaller dataset and has a  
17 higher level of uncertainty than the unconditioned  
18 climatology, which is based on all hurricane  
19 seasons.

20 The near-term catalog thus reflects a  
21 scientifically credible view of risk, but with a  
22 higher level of uncertainty than our standard,  
23 which is based on 20 years of research and  
24 development and all the historical seasons.

25 Lastly, I'd just like to point out that AIR

1       has taken great pride in developing a  
2       meteorological team of eight scientists, seven of  
3       whom have Ph.Ds. The team's research is cutting  
4       edge, and, in fact, has been presented at various  
5       meteorological conferences, will be published in a  
6       book called Hurricanes and Climate Change later  
7       this year, and will also be published in a  
8       peer-reviewed meteorological journal called the  
9       Journal of Applied Meteorology and Climatology.

10       The work is by no means complete, but the  
11       versatility of the research will allow for its  
12       application to other perils in other regions of the  
13       world.

14       MR. LALONDE: Since 2006, AIR has released a  
15       near-term catalog of stochastic storms, one that  
16       represents potentially increased hurricane risk.  
17       The near-term catalog is issued as a supplement to  
18       rather than a replacement for AIR's standard U.S.  
19       hurricane catalog, which is based on over 100 years  
20       of historical data and 20 years of research and  
21       development.

22       By providing two credible estimates of  
23       hurricane risk, AIR is providing clients with more  
24       information. AIR continues to emphasize that the  
25       near-term catalogs are associated with higher



1       uncertainty than the standard catalog. Independent  
2       bodies, such as we just heard from the Florida  
3       Commission on Hurricane Loss Projection  
4       Methodology, as well as state regulators, have had  
5       complete access to all aspects of our model.

6               We understand the desire for regulatory  
7       scrutiny of models that are being used for  
8       important and wide-reaching financial decisions;  
9       and, in fact, AIR has already committed significant  
10      resources to meeting model review standards in a  
11      number of states. The cost of model submissions  
12      was not included in that \$4.2 million number we saw  
13      earlier.

14             The models have also been reviewed thoroughly  
15      in the commercial marketplace. AIR models are  
16      based on years of scientific research and data  
17      analysis. Since AIR's inception, its models have  
18      undergone a comprehensive process of refinement,  
19      enhancement, validation and review. In addition to  
20      our continuous cycle of internal peer review, model  
21      components, including components of our near-term  
22      hurricane model, have been subjected to independent  
23      scientific peer review and scrutinized by rating  
24      agencies, state insurance departments and our  
25      clients.

1           AIR has provided volumes of information about  
2           its model to state insurance regulators and has  
3           answered all questions about model components that  
4           have arisen. We have opened the model to state  
5           agencies for detailed review, both visiting state  
6           offices to discuss the model, and inviting the  
7           agencies to view the information at our offices,  
8           including our office here in Tallahassee.

9           We have responded to formal requests for model  
10          information for many states, including Florida,  
11          South Carolina, Louisiana, Texas and Hawaii.

12          Insurance rates, in part, based on AIR models,  
13          have been followed and approved in many states.  
14          The AIR hurricane model was certified under the  
15          original 1996 standards of the Florida Commission  
16          on Hurricane Loss Projection Methodology and has  
17          been certified by the Commission in all subsequent  
18          years.

19          AIR clients are sophisticated business  
20          professionals who do not use the models blindly.  
21          We provide our clients with technical documentation  
22          and offer continuing model education through  
23          structured training, conferences, seminars, white  
24          papers. In addition, we speak publicly frequently  
25          about our models.

1           In conclusion, I'd like to assure the Senate  
2           Committee and all Floridians that AIR has played  
3           and continues to play a role in advising insurers,  
4           governments, and other stakeholders of the  
5           hurricane risk in Florida, not to mention  
6           catastrophe risks around the globe.

7           Our models will always be underpinned by the  
8           same foundation of scientific research and  
9           technology, and this does not and will not change  
10          according to the nature of any particular client.  
11          We will continue our research into landfalling  
12          Atlantic hurricane activity in the presence of  
13          today's climate signals and present our best views  
14          of the risk based on one or more credible catalogs  
15          of simulated events.

16          We understand that insurers, reinsurers and  
17          governments use our models to inform their  
18          judgments about ratemaking and capitalization, and  
19          we are aware that these judgments have significant  
20          consequences for Florida, both the pocketbooks of  
21          its consumers, and the strength of its property  
22          insurance market. AIR's role is providing  
23          information and scientific interpretation to all  
24          parties.

25          Finally, as Florida's economy and property

1 insurance market evolve in response to the supply  
2 and demand for capital, insurance product and  
3 pricing innovations and public policy decisions,  
4 AIR hopes to remain a trusted, independent source  
5 for catastrophe risk assessment. To that end, we  
6 have a continuing relationship with the Florida  
7 Commission, a local presence here and sincerely  
8 offer our help to Florida state leaders and market  
9 players. Thank you.

10 THE CHAIRMAN: Thank you, sir.

11 Senator Posey, I think you had your hand up.

12 SENATOR POSEY: Thank you, Mr. Chairman. I  
13 just wanted to make sure that I got in a question  
14 or remark before we ran out of time, because I know  
15 from the last couple of groups we had here that  
16 we're going to run out of time.

17 THE CHAIRMAN: Right.

18 SENATOR POSEY: And so I appreciate you  
19 recognizing me a little bit early.

20 That being said, you know, I want to  
21 compliment you and Co-Chair Geller on some very  
22 intensive fact-finding sessions that the members  
23 have sat through. We've got a lot of questions  
24 answered, we have quite a few questions that remain  
25 unanswered, and we've got a plethora of new

1 questions generated by the unanswered ones.

2 You know, we are -- and I'm not saying it was  
3 intentional or unintentional, that's just the facts  
4 as I see them -- you know, we are citizen  
5 Legislature. We're going to be in session shortly  
6 for 60 days, and we're going to be not in session  
7 for 10 months.

8 I think that we should maybe give some  
9 consideration to seeking some outside counsel, that  
10 even when we're not here we'll continue to pursue  
11 the answers to these questions that we want. I  
12 think having these sessions under oath has provided  
13 better insight than we have had otherwise for the  
14 past two years.

15 And I think outside counsel could do that, and  
16 I think we could submit questions to the counsel  
17 and they could take the depositions even when we're  
18 not in session, even when we're not here, until we  
19 reach a point where all the i's are dotted and the  
20 t's are crossed and we can connect the points.

21 Right now I'm -- my connect-the-dots are  
22 getting further apart. I was hoping they would  
23 start beginning to coalesce and we could put this  
24 puzzle together, but that's not happening. The  
25 puzzle is getting even more fragmented.

1           And that's just a suggestion that I make to  
2           the two chairmen, and, you know, would appreciate  
3           your consideration in any communications that you  
4           have with the President maybe that we pursue this a  
5           little bit further than that.

6           You know, so often, and today -- today not so  
7           much, but, I mean, we've had some testimony that  
8           clearly was not as forthcoming maybe as we would  
9           have wanted it, and there just seemed to be the  
10          misunderstanding out there that as soon as it got  
11          to be 2:00 or 11:30 or when your time limit was up,  
12          that the game was over and you're home free.

13          And I think we all agree that that's not the  
14          case, that until we get the information we want --  
15          and I'm not saying until we get the information we  
16          like, but until we get the information we want, I  
17          would like to see we continue even past maybe the  
18          scheduled ending of this committee, which is today,  
19          either ask to have this extended or maybe pass part  
20          of the ball over to some outside counsel that would  
21          continue it on our behalf. And I just thank you  
22          for taking my comments.

23          THE CHAIRMAN: Thank you, Senator Posey. I  
24          believe from a -- frankly a conversation we've  
25          already had with the President regarding the matter

1 of outside counsel assisting us, that he leaned to,  
2 I believe at least my interpretation of his  
3 response, was that he would be inclined to take the  
4 recommendation from the Committee.

5 SENATOR POSEY: Thank you.

6 THE CHAIRMAN: Let me, again, with a -- Mr.  
7 Lalonde, I'll begin with you. You may wish to  
8 defer this to someone else. You spoke with some  
9 pride there about the fact that your model has been  
10 approved in the state of Florida, the -- we used  
11 kind of the terminology, "a long-term model." You  
12 may wish to clarify that.

13 But you spoke with certainly, I think,  
14 corporate pride about that fact in other places as  
15 well. So the question would be: Do you believe  
16 then it is sound public policy that models should  
17 be reviewed and approved before they are utilized  
18 for ratemaking?

19 MR. LALONDE: The model being certified by the  
20 state of Florida, I think, has value to modelers.  
21 It comes at a very high cost to the modelers, the  
22 cost of submitting a model to Florida on an annual  
23 basis, probably in excess of \$500,000.

24 But I think there is value in that, but it  
25 needs to be done in an effective and efficient way

1 so that in the state of Florida, while the model is  
2 reviewed by the Commission, the model is then  
3 subsequently reviewed again by the OIR after that  
4 fact.

5 THE CHAIRMAN: But help me just -- again,  
6 I noted that you spoke with pride, and I can  
7 understand that, that all the work and all the  
8 energy, all that you have done as an organization,  
9 you have -- you spoke with pride that the Florida  
10 Commission has approved that model, and it is -- it  
11 then just seems to be that -- again, my question  
12 could be yes or no. Would it make good public  
13 policy that a model would be approved prior to its  
14 use for ratemaking?

15 MR. LALONDE: Yes, that is good public policy.  
16 However, I believe under the Commission the model  
17 is certified as meeting the standards, not  
18 technically approved.

19 THE CHAIRMAN: Very well. How about if I  
20 could then follow-up -- I just want clarification  
21 on Dr. -- what Dr. Dailey shared with us. Again,  
22 I'm going to refer to an article that you had  
23 written May -- it was published March/April '07,  
24 and I think it's Contingencies.

25 MR. LALONDE: Yes.



1 THE CHAIRMAN: And you're referring to this  
2 matter of the models. And I'll just read the two  
3 sentences here: We at AIR released a near-term  
4 catalog that can be used to conduct sensitivity  
5 analysis or defines human portfolio optimization.  
6 We continue to believe, given the current rate of  
7 the science, that the standard model, which I take  
8 as different from the near-term catalog, the  
9 standard model, based on over 100 years of  
10 historical data and over 20 years of research and  
11 development, remains the most credible model.

12 Could you help me understand where you were  
13 headed with that?

14 MR. LALONDE: This is true, because the  
15 standard model that we refer to is our model based  
16 on 100 years of data and 20 years of research, what  
17 you would call the long-term model.

18 THE CHAIRMAN: And the one approved by the  
19 state of Florida?

20 MR. LALONDE: And the one that is certified by  
21 the state of Florida.

22 THE CHAIRMAN: Certified by the state of  
23 Florida.

24 MR. LALONDE: And the near-term model is a  
25 model that is conditioned on the warm sea surface

1 temperature, so it is subject to -- it is based on  
2 fewer data points and subject to more uncertainty.  
3 I think that there is scientific debate relative to  
4 the impact of warm sea surface temperatures on  
5 potential hurricane activity.

6 I think that as a company helping clients  
7 understand risk and guided by ASOP 38, Acturial  
8 Standard of Practice 38, which requires company  
9 actuaries who use models to review the impact of  
10 controversy or disagreement among its experts, that  
11 providing more information on what the potential  
12 impact of a warm sea surface temperature is is an  
13 appropriate approach and a not unreasonable  
14 approach to providing information for their further  
15 consideration in conjunction with the standard  
16 model in making their final decision on rate  
17 levels.

18 THE CHAIRMAN: And I won't ask this for  
19 Senator Fasano, but it seemed like he was going  
20 with this a minute ago -- it gets back to the point  
21 that there is an in-game person who is receiving  
22 the benefit of a service, that be it the consumer,  
23 and they're, frankly, in the midst of all of these  
24 calculations, the one who ends up writing the  
25 check.

1           And, therefore, all of the -- this effort that  
2 goes in prior to them getting to the point where it  
3 lands in their mailbox to write the check, they are  
4 subject to what was referred to earlier as possible  
5 biases, perspective, positions, strategies of  
6 companies that will utilize your tool, and to that  
7 end, just the paragraph before, what -- referenced  
8 about the variances in the model using a near-term  
9 catalog.

10           And it noted, for 7 of the 11 coastal regions  
11 defined for purposes of the analysis, the lower end  
12 of the 95 percent confidence band actually  
13 indicates that a decrease in frequency was also  
14 possible.

15           Does the consumer ever get the benefit of that  
16 doubt?

17           MR. LALONDE: Well, it's all -- it's  
18 information that we provide, and people that are  
19 using that information to make rates can make an  
20 appropriate adjustment. And if they believe the  
21 lower end of that range, although there's a large  
22 amount of variability around it, they may have some  
23 influence on where they want to write business.

24           THE CHAIRMAN: And so then just 7 of the 11  
25 regions, that just seems to be not something in

1 passing of footnote, that they may actually have  
2 opportunity for a frequency of lower, less impact.

3 DR. DAILEY: Sure, yes, I think that you're  
4 right. And, actually, what the analysis shows --  
5 and this is what I was getting into a bit in my  
6 statement -- is that there are a variety of climate  
7 signals which play into a given hurricane season or  
8 a series of hurricane seasons or into projections  
9 of how climate will actually affect hurricane  
10 activity.

11 Ultimately, to try and analyze and assess the  
12 impact involves two steps: First, understanding  
13 and then estimating the mean impact, the impact on  
14 expectations; but then the second part that we  
15 think we brought to this is also estimating the  
16 range.

17 Now, it's true that 7 of the 11 regions  
18 indicate the potential at the low end of the range  
19 for a decrease. And we understand the reason for  
20 that is because there is a multitude of climate  
21 signals that play into hurricane activity. It's  
22 not simply to say warm sea surface temperatures  
23 produce more storms, produce more hurricanes,  
24 produce more landfalling hurricanes, produce more  
25 loss.

1           That whole chain of events, or that whole  
2           change of physics, involve a series of assumptions.  
3           In assessing the data and actually trying to make  
4           an estimate, we've done that, and what we have  
5           determined is the mean expectation may be for an  
6           increase in frequency, but that does not mean that  
7           the range does not indicate the possibility for a  
8           decrease.

9           And that's what -- a lot of the scientific  
10          research right now, and the reason for the debate,  
11          revolves around the idea that it's not a simple  
12          question to answer. And that's the reason why,  
13          even within the scientific community, there is no  
14          answer, and that's the reason the research has to  
15          continue.

16          THE CHAIRMAN: I think that you were in the  
17          audience when the previous panel spoke of the fact  
18          that when someone -- when they saw how someone  
19          might have begun to utilize an instrument, that  
20          their very approach was taking them in a direction  
21          that there was the potential for bias being built  
22          into where they were going to head with that.

23          And so I want to just thank you for the  
24          answers, because what seems to be here is that  
25          you're recognizing the variances, you're

1 recognizing the potential, you're even recognizing  
2 with pride the certification authorization of a  
3 model before it's put to use by someone, I suspect  
4 even supplementing their rate filing with this  
5 information.

6 Public policy would say, before that's gone  
7 off and used in that fashion, it wouldn't be bad to  
8 have such a model certified. And I guess it's your  
9 testimony -- it certainly was there -- is that your  
10 model has not -- no near-term cataloging has been  
11 authorized or certified by the Commission. That  
12 would be accurate?

13 MR. LALONDE: That would be accurate.

14 THE CHAIRMAN: How about this then -- and I'll  
15 finish with this -- has any of your customers,  
16 meaning, I take it, the insurance companies that  
17 utilize your tool -- have any of them ever asked  
18 you to create a near-term catalog, a supplemental  
19 model, a near-term model, a short-term model? Have  
20 they ever asked you to create for them such a tool?

21 MR. LALONDE: No.

22 THE CHAIRMAN: And you would then --  
23 Mr. Lalonde, you would testify before us that you  
24 could -- speaking for the entire team, that is the  
25 case, it would come through you, you would have

1       seen the memo, seen the request, heard the phone  
2       call?

3               MR. LALONDE: I never saw any such memo or  
4       phone call, no.

5               THE CHAIRMAN: But you feel confident  
6       answering for the entire company that the  
7       corporation has never been asked, nor have you  
8       supplied any information of the creation of any  
9       tool asked for by the industry itself?

10              MR. LALONDE: That's correct, not to my  
11       knowledge.

12              THE CHAIRMAN: Very well.

13              Senator Geller, did you have a question? Then  
14       we have to move on. Members, we will go until  
15       11:40.

16              Senator Geller, you're recognized.

17              SENATOR GELLER: Just to briefly follow up on  
18       what Senator Atwater was discussing -- and I'm  
19       trying to elaborate a little bit more on the use of  
20       the short-term model and why it is being used.

21              We've heard testimony that there is a  
22       conflict, the NOAH school of thought, which  
23       certainly is a governmental group that has no ax to  
24       grind, has said that they believe that the long --  
25       that the short-term model, because of increased

1 ocean -- global warming in ocean temperature may,  
2 in fact, result in less hurricanes hitting Florida  
3 based on steering patterns and wind shear. We've  
4 heard conflicting opinions.

5 Can you tell -- well, first of all, have you  
6 looked at the NOAH -- when you've come up with the  
7 short-term model, have you looked at the theories  
8 espoused by NOAH?

9 DR. DAILEY: Yes, we have. Of course, we're  
10 always aware of the body of knowledge that's out  
11 there which actually falls into a multitude of  
12 categories, some seasonal forecasting, some in just  
13 assessing climate impacts on hurricanes, and others  
14 looking at long-term projections, like those of the  
15 IPCC report, for example.

16 Now, ultimately NOAH is sort of a microcosm of  
17 the scientific community. You know, there are  
18 scientists within NOAH that may have differing  
19 opinions in doing different types of research. In  
20 the end, it sort of comes down to what is the state  
21 of the science. And the state of the science is  
22 mostly revolving around the impact of climate on  
23 Atlantic basin activity, not specifically focused  
24 on say the impact on Florida landfalls or even U.S.  
25 landfalls, for that matter.



1 Now, what distinguishes between the two?

2 Well, Atlantic activity is highly influenced by the  
3 warmth of the ocean and the level of wind shear.  
4 But it's also known that when it comes to landfall  
5 activity, the connection between what happens in  
6 the Atlantic basin and what happens at landfall is  
7 how storms move.

8 Now, how does climate influence how storms  
9 move? There is very little scientific research,  
10 published peer-reviewed research, that really looks  
11 into that issue. So ultimately to understand  
12 landfall risk requires doing a little bit more than  
13 what's available.

14 Back to the specific question about NOAH, I  
15 think that they are like everyone else, and  
16 including -- we would put ourselves in the category  
17 of trying to understand it better. And ultimately  
18 what that means is, you start to answer some  
19 questions and ultimately you actually end up asking  
20 many more.

21 And we're actually at that point in the state  
22 of the science. We can't answer many of the  
23 questions that relate to the ultimate influence on  
24 landfall activity.

25 SENATOR GELLER: Well, sir, just to ask then,

1 as you say, one question leads to more, I'll ask  
2 another question, which is: If NOAH, which, again,  
3 seems to -- to those of us here, NOAH seems to be  
4 somebody with no ax to grind as opposed to private  
5 sector companies that frequently do have, you know,  
6 a predisposition one way or the other.

7 So what I'm trying to ascertain is, it would  
8 appear that the short-term model would give  
9 credence to one of the positions out there, which  
10 is that there will be more hurricanes. And the  
11 modeling involves more hurricanes hitting Florida  
12 or hitting the U.S., while giving less credence to  
13 the theory espoused by NOAH that that is completely  
14 backwards.

15 Can you elaborate on that?

16 DR. DAILEY: Well, nothing you have said is  
17 incorrect, but I think what you have to come back  
18 to --

19 SENATOR GELLER: All right, you can stop right  
20 there.

21 DR. DAILEY: What you have to come back to is,  
22 what is the research focused on? Now, to a large  
23 extent what NOAH works on, not to say all of what  
24 they work on, but to a large extent they work on  
25 seasonal forecasting. And seasonal forecasting

1 plays a role in what will obviously happen in the  
2 upcoming season, and could play a role in the  
3 so-called near term if you were actually trying to  
4 forecast in the near term.

5 Now, what we've developed is actually very  
6 different. What our near-term or medium-term  
7 methodology relates to is how does warm ocean  
8 temperatures relate to landfall risk? That's not a  
9 projection. We're not saying that over the next  
10 five or ten years this will be the level of risk,  
11 we're saying that under warm SSTs, which has been  
12 the case since 1995, this is the effect you should  
13 expect on average.

14 Now, NOAA's research, and especially NOAA's  
15 seasonal forecast, relates specifically to the  
16 upcoming season. And I don't think the scientists  
17 that developed those forecasts would necessarily  
18 apply it to the next even two seasons, never mind  
19 five. And then it gets confused also with these  
20 longer-term projections of 50 to 100 years.

21 So, ultimately, the research is there. The  
22 research even within NOAA may be conflicting, but  
23 the research that we have to pay attention to is  
24 not just that research on seasonal forecasts, but  
25 all of the research revolving around climate, how

1 it affects basin and landfall activity.

2 SENATOR GELLER: Okay. Let me -- in the  
3 interest of time, I will just ask the last  
4 question: The follow-up, again, on what Senator  
5 Atwater was saying, what I've been trying to  
6 ascertain is why we have the short-term model. I  
7 believe you've testified that there is an  
8 additional value to having the model certified.  
9 You've also testified that the long-term model  
10 remains the more credible model.

11 And what I'm trying to figure out is, why we  
12 have the short-term model; why y'all have developed  
13 the short-term model; and why the insurance  
14 industry is using it?

15 We have been informed by OIR -- I have not  
16 personally heard this -- we've been informed that  
17 one of the other modeling companies, at least, has  
18 implied that you've created the short-term model at  
19 the request of the insurance industry, but that  
20 they have asked for a short-term model as well  
21 because of the theory that -- well, that the way  
22 it's working out, that that will result in higher  
23 rates, which is not, I think, a fair conclusion to  
24 arrive at, again, on something where you yourselves  
25 have said that the long-term model is more

1 accurate.

2 So can you elaborate on why the short-term  
3 model was created and to what extent you think it  
4 is appropriate to use?

5 And that's my last question, Mr. Chairman.

6 MR. LALONDE: Sure. I believe I can shed some  
7 light by going back into history. But first I want  
8 to say that the short-term model is not a different  
9 model, it is the same model with a different  
10 catalog reflecting a higher frequency in severity  
11 of potential events. So there's a component of it.

12 So relative to the model itself being  
13 certified by the Florida Commission, it's the same  
14 underlying model. And there are a few standards  
15 that would need to be met additionally based on the  
16 generation of a new catalog.

17 SENATOR GELLER: But affect the price by over  
18 40 percent?

19 MR. LALONDE: Not in our current approach of  
20 the model, it's not that kind of number. It's  
21 probably more a 10 to 15 percent range in the state  
22 of Florida for the impact of the near-term model.

23 THE CHAIRMAN: Let me just jump in there then,  
24 Mr. Lalonde.

25 When we had Allstate here with us, we asked

1       that very specific question: Did you score the  
2       long-term model -- or the model? And the answer  
3       was, no, which Senator Posey's comment a little  
4       while ago, all of us found remarkable. However,  
5       did you score, after using the near-term catalog,  
6       what the change would be? Answer, yes, it was  
7       going to change the dynamic of our rating by an  
8       increase of 42 percent.

9               Well, how do you get that number if you  
10       haven't scored the long-term? I don't know how you  
11       do that. But their answer was, that instrument  
12       alone created that change in the rate filing.

13              Do you find that to be news?

14              MR. LALONDE: I think that in our initial  
15       release of a near-term catalog in 2006, I believe  
16       that the difference within the state of Florida  
17       would have been in the magnitude of 40 percent.  
18       The difference in the current model released in  
19       2007 is about 10 percent.

20              And I will back up a little bit to finish  
21       answering a question when I give a little bit of  
22       light into history and you see how this is  
23       developed over time. And AIR, back in its early  
24       days in the early '90s, you know, was publishing  
25       research on the impact of climate on hurricane

1 risk, and has been following this, you know, since  
2 our inception.

3 In the mid-'90s, we produced, under the same  
4 model, similar to the short-term catalog, but  
5 catalogs based on El Nino years versus La Nina  
6 years. So we had alternative views. This is done  
7 to help companies using the model understand the  
8 uncertainty and sensitivity of different scientific  
9 approaches to the modeling.

10 This was followed by a venture in 2001 with a  
11 firm called Accurate Environmental Forecasting  
12 where we started developing seasonal forecasts of  
13 risk made available to our clients, which actually  
14 tried -- attempted to forecast the next hurricane  
15 season and make a special catalog based on that.

16 This model was available in 2001 through 2004,  
17 in which case we started issuing a seasonal  
18 forecast, yes, the seasonal forecasting in 2004.  
19 We put out a full catalog -- I'm sorry, back in  
20 2001 it was real-time events.

21 DR. DAILEY: Maybe I can clear up --

22 MR. LALONDE: Yes, you clear it up.

23 THE CHAIRMAN: We're going to have to move  
24 along real quickly --

25 MR. LALONDE: Okay, sure.

1 THE CHAIRMAN: -- so let me just move to  
2 someone who has -- we have a couple of members who  
3 haven't had a chance to ask; like, Senator Ring,  
4 you were the next up with a hand raised.

5 SENATOR RING: Thank you, Mr. Chair.

6 Could you clarify something for me? You said  
7 earlier that you don't build your models to set  
8 rates. Did I mishear that, that it's more --

9 MR. LALONDE: I don't know if that was said,  
10 but that's certainly true.

11 SENATOR RING: But the insurers do use your  
12 models to set their rates?

13 MR. LALONDE: One of the uses of the model  
14 that insurance companies do is in helping them come  
15 up with the technical rate for the underlying loss  
16 costs that they use in an ultimate rate filing.

17 SENATOR RING: And they're doing that on an  
18 annual basis? Even though your models may not be  
19 necessarily that, they're setting it on an annual  
20 basis?

21 DR. JOHNSON: In general, Florida law does  
22 require annual rate filing.

23 SENATOR RING: Yes. So my question is: Were  
24 your models -- were they right last year, the year  
25 before? In other words, I guess where I'm going



1 is, obviously the seasons that we have had the last  
2 two years were not what we predicted by any  
3 stretch. And even though what you're saying is,  
4 well, you do it for long term and whatnot, the  
5 insurers are using that to set rates.

6 So if you're wrong on a year or two years or  
7 three years or five years, then is that true, that  
8 that's affecting the consumers and that's actually  
9 being leveraged to increase rates dramatically  
10 here?

11 MR. LALONDE: I think you will have to restate  
12 that question.

13 SENATOR RING: I mean, I think -- well, I will  
14 restate it a different way: How much -- when we  
15 look at the science -- because I keep hearing the  
16 word "science," okay, science, science, science.

17 You've all testified, and I appreciate that  
18 you have -- I'm grateful for the fact that you have  
19 testified that science can only take us so far,  
20 that there's a lot we don't know. And it would  
21 seem to me that a lot of these rates that the  
22 insurers are using are based upon -- I mean, a big  
23 chunk of it is a guessing game. Now, some of it's  
24 not, some of it you have gone to a certain area,  
25 but a lot of it is just a guessing game.

1           And I think that seems to be to me the core,  
2           the vortex of this problem that we're really facing  
3           as a state, is that the models that are out there  
4           aren't effective from the standpoint that you will  
5           never have the science to make it totally  
6           effective, not that you're not doing what you can  
7           do with what you have.

8           But you will never have the full science to  
9           actually do what's ultimately needed to truly  
10          effectively use your research, which ends up being  
11          used to set rates. And I guess that's where I'm  
12          going with this.

13          MR. LALONDE: The average annual loss  
14          reflected in the model reflects the probabilities  
15          of high seasons of activity and low seasons of  
16          activity, and it's the probability-weighted  
17          average.

18          And you're not going to expect the average to  
19          be what's experienced in any given year. But over  
20          time if you keep collecting the average, you will  
21          expect to break even.

22          Do you want to add to that, John?

23          MR. ROLLINS: I would just point out that the  
24          actuaries and the insurance companies who  
25          ultimately have to set rates have a responsibility

1 to look at lots of -- and really all relevant  
2 information that sort of meets a standard in  
3 professional judgment that it becomes relevant.

4 So we don't -- while we don't participate in  
5 that process, we are one provider of information in  
6 that process. And, in particular, to address your  
7 question, Senator Ring, we provide models because  
8 we feel that the science does take us far enough  
9 that we can provide a scientifically-tenable  
10 picture of the possibilities.

11 We cannot in any one season, because the  
12 nature of catastrophic events is zero, zero, zero,  
13 kaboom, or in the case of 2004, kaboom, kaboom,  
14 kaboom, kaboom. But you have a lot of zeros in  
15 there. You have a lot of years that are quiet.  
16 You have a few years where you have extreme events.

17 And when you have those kinds of -- with that  
18 kind of profile, that kind of picture of losses,  
19 it's exceptionally important to use some kind of  
20 tool that gives you a picture of what could happen,  
21 rather than what did happen last year, what will  
22 happen next year, what happened five years ago.

23 And, in fact, under actuarial standards, it  
24 would be rather irresponsible -- for example, no  
25 one -- I certainly wouldn't submit a rate filing

1       that was based on five or ten years of Florida  
2       hurricane experience at this time. That would be  
3       malpractice, and it would be very deleterious to  
4       consumer interest right now.

5               So I think the scientifically-tenable picture  
6       of the possibilities is where the models advance  
7       us. They do not simply tell us the answer next  
8       season.

9               SENATOR RING: And then just to follow up, but  
10      I think there's a disconnect there, and maybe the  
11      disconnect is not so much the work you're doing,  
12      but what that information is being used for. In  
13      other words, you're doing the best you can do with  
14      what you have, but because the disconnect that we  
15      have -- that the insurers have to set rates  
16      annually, or they switch, you know, some of them  
17      from long term to short term overnight on us, I'm  
18      not sure your information is being used responsibly  
19      even if it's being collected responsibly.

20              MR. ROLLINS: I would have to agree that the  
21      use of our information is a valid concern --

22              THE CHAIRMAN: Senator Baker.

23              MR. ROLLINS: -- and it extends well beyond  
24      our ability to sort of manage that. However, I  
25      would say that we offer as much education, as much

1 public speaking, white papers, conferences,  
2 seminars.

3 In fact, I direct a certain level of elite  
4 training for the company. So I know we've put a  
5 lot of effort into education, but it's certain that  
6 we can't guarantee an outcome in any state or in  
7 any particular market.

8 THE CHAIRMAN: Senator Baker, you're  
9 recognized.

10 SENATOR BAKER: Thank you, Mr. Chairman. I  
11 think this is for Dr. Dailey, and this is -- I get  
12 a lot of questions about the rising sea  
13 temperatures and how they affect hurricanes, so I  
14 just want to -- I just get that question all the  
15 time.

16 So you have 100 years worth of studies. Do we  
17 show an increase -- have we shown a substantial  
18 increase in ocean -- surface ocean temperatures  
19 recently; and, also, how would that compare to the  
20 increase in hurricane activity I think we had in  
21 the '40s or '50s where we had a ton of hurricanes?  
22 Did we also have a corresponding increase in  
23 surface temperatures at that time?

24 So did it happen then, and have we seen a  
25 slowly increase in surface ocean temperatures?

1 DR. DAILEY: Well, what can be said is, first  
2 of all, the historical record for sea surface  
3 temperatures in the Atlantic is fairly extensive.  
4 We can go back to the early part of the 1900s. But  
5 just like any other dataset, it's going to be  
6 higher quality data the more close we get to  
7 present.

8 Within the scientific community, and part of  
9 the research that we've focused on, is to get an  
10 assessment of natural cycles and trends. Trends  
11 may be partly natural and partly man-induced. And  
12 within the Atlantic Ocean -- the Atlantic Ocean is  
13 a unique ocean in that it's a fairly enclosed,  
14 relatively small one.

15 And there is a current system known as the  
16 thermohaline circulation that may induce -- this is  
17 a theory, not a fact -- but may induce a natural  
18 cycle, and that natural cycle may last for decades.

19 Now, if you look at the historical records,  
20 there are indications that there is this natural  
21 cycle that, as you mentioned back in the '50s, was  
22 warm, turned to cool in the '70s and '80s, and then  
23 in 1995 to present has been warm every year; where  
24 if the cycle is truly existent, then we're in the  
25 middle of that warm cycle today.

1           So part of it would be that going forward we  
2 would expect, if that cycle exists and if it does  
3 last for, let's say, 30 years, we're, say, 15 years  
4 into it, we would expect it to persist forward.

5           Now, another part of the puzzle is  
6 understanding trends. Trends may be induced, say,  
7 for example, by climate change, so-called global  
8 warming. Now, that's a tougher one, because in  
9 order to compute that trend you have to take into  
10 account, how long has it been lasting, and is it a  
11 linear trend, is it basically kind of going  
12 incrementally up every year by the same amount?

13           Now, there is a scientific debate even within  
14 that question, and some would say that what you see  
15 in the historical record in the form of cycles is  
16 actually not this ocean-induced cycle, but is  
17 actually episodically induced by, say, volcanic  
18 eruptions and other activities in the atmosphere  
19 that may induce a short-term period of warming  
20 overlaid on a long-term trend.

21           Now, that is not a question that has been  
22 answered. Despite the fact that the consensus may  
23 be that the atmosphere is warming, that does not  
24 necessarily mean that the ocean is or that every  
25 ocean is in the same way.

1           So I can't really answer your question except  
2           to say that the scientific community is partly  
3           focused on trying to extract those two pieces of  
4           the signal within the Atlantic, what part of it is  
5           trend, what part of it is cycle.

6           And unfortunately since we're in the middle of  
7           a cycle, if it does exist, it's very difficult.  
8           Maybe what will come about in, say, 15 years or so,  
9           is as we start to move from warm to cool, that will  
10          help us better understand whether there is a cycle  
11          and how long it lasts so that we can then extract  
12          the trend.

13          But just in and of itself, that's just one  
14          piece of the larger puzzle. And even there there's  
15          sort of a contentious debate that goes on.

16          THE CHAIRMAN: Senator Fasano, you're  
17          recognized.

18          SENATOR FASANO: Thank you, Mr. Chairman.  
19          I'll do it as quickly as possible.

20          Your model was approved by the Commission?

21          MR. LALONDE: Our model has been certified by  
22          the Commission since 1996, yes, annually.

23          SENATOR FASANO: And what insurance companies  
24          have used your model when putting in for rate  
25          requests with OIR?



1 MR. LALONDE: I'm not sure which companies  
2 have used the model for rate requests with OIR. We  
3 deliver results to our clients. We may be aware of  
4 some clients using it because we get questions back  
5 from the OIR; but we have over 400 clients, and I  
6 can't tell you a list at this time.

7 SENATOR FASANO: So you're not aware of when a  
8 property and casualty insurance company puts in for  
9 a rate request whether it's higher or lower,  
10 whether they're using your model as --

11 MR. LALONDE: Not necessarily, unless we're  
12 called in on their behalf to assist in answering  
13 questions, et cetera.

14 SENATOR FASANO: Okay.

15 MR. ROLLINS: Senator Fasano, for some help,  
16 however, that is public information. I don't  
17 believe there's ever a case in which a company  
18 making a filing could keep that a trade secret.  
19 And, also, you might ask OIR those kinds of  
20 questions, because I think a compilation of which  
21 companies are using which models might be valuable  
22 to you in some capacity.

23 SENATOR FASANO: Using your model with a  
24 filing, would the potential of a rate reduction  
25 occur, do you think?

1 MR. LALONDE: It depends on their current rate  
2 level. It's always possible.

3 MR. ROLLINS: I think reduction from what?

4 SENATOR FASANO: Pardon?

5 MR. ROLLINS: I think reduction from what is  
6 the question you would have to ask. It largely  
7 would depend on the existing rate level at the  
8 company.

9 SENATOR FASANO: I couldn't help but notice --

10 MR. LALONDE: There are areas where the loss  
11 cost produced by our model has gone down in certain  
12 years in certain zip codes and certain counties  
13 based on different factors.

14 SENATOR FASANO: I couldn't help but notice  
15 that the Commission has accepted or certified five  
16 models, yours being one of them. Is that right?

17 MR. LALONDE: Yes.

18 SENATOR FASANO: Just out of curiosity, do you  
19 think that the arguments we heard from Allstate the  
20 other day saying that the model they used, of  
21 course, wasn't certified or approved, but they said  
22 that the -- that there's nothing in the law that  
23 says that they must use it, use a certified model,  
24 do you think that we should change the law and be  
25 specific that insurance companies, property and

1 casualty insurance companies, should only use --  
2 can only use approved models by the Commission?

3 MR. LALONDE: That's a difficult question. As  
4 part of our model, historically we have had a  
5 component called demand surge which you heard  
6 earlier talked about by the Florida Commission.

7 Demand surge has always been part of our model  
8 since Hurricane Andrew. However, in filing before  
9 the Commission, the Florida Commission, that was  
10 not an appropriate -- it was not viewed as  
11 something that could be used. And then in 2006, I  
12 believe, they flip-flopped and required the use of  
13 demand surge.

14 So all of a sudden the demand surge model,  
15 which we had had all along, was now subject to  
16 review. It was reviewed and certified still and  
17 then used by companies. So I think that there is  
18 value in things that happen outside of the  
19 certification process in being considered as part  
20 of the information that goes into a rate filing.

21 SENATOR FASANO: And, finally, Mr. Chairman,  
22 do you think that -- why do you think Allstate  
23 didn't use any of the approved models?

24 MR. LALONDE: I can't comment.

25 SENATOR FASANO: Okay. Well, thank you.

1 Thank you, Mr. Chairman.

2 THE CHAIRMAN: Thank you, Senator.

3 Senator Peaden, you're recognized.

4 SENATOR PEADEN: Thank you, Mr. Chairman.

5 I've got a couple of questions, and one procedural  
6 question. In your model, when you're developing  
7 the model, there's no coordination, collaboration  
8 or communication with your customers or insurance  
9 companies before or during the time you're  
10 developing the model?

11 MR. LALONDE: That's a difficult question to  
12 ask.

13 SENATOR PEADEN: Well, I'll break it down  
14 in --

15 MR. LALONDE: For instance --

16 SENATOR PEADEN: -- collaboration,  
17 coordination or communications, either three.

18 MR. LALONDE: Obviously, there is  
19 communication with our clients. One of the sources  
20 of information we use in validating our model is to  
21 obtain actual detailed claims data from our clients  
22 from actual events that have happened.

23 We get that information, what are the actual  
24 losses you paid, then we use that within our model  
25 to say, did we get it right or not. So it's an

1 important source of validation of the model, is to  
2 use client information.

3 So there's -- there is discussion about, what  
4 are your losses. They send the losses, but we  
5 don't then -- we then use that internally to review  
6 it. And we may share the results with our clients,  
7 but it doesn't -- but that's the nature of the type  
8 of communication that we would have with our  
9 clients relative to model development.

10 SENATOR PEADEN: Now, Mr. Chairman, when you  
11 -- when the product is sold to your customers, do  
12 they solicit it, or is it periodically sent to  
13 them? Whenever you develop a new model, how is  
14 that process developed?

15 MR. LALONDE: Our clients, it's delivered  
16 software products and consulting services. The  
17 software products are usually released annually,  
18 potentially biannual, or twice a year, with  
19 updates. Any updates are sent to clients.

20 The models annually would be re-licensed.  
21 It's an annual license, and the client would  
22 re-license the model and would be sent the update.

23 SENATOR PEADEN: So there's no specific  
24 orders, like you'd order a computer with specific  
25 specifications?

1 MR. LALONDE: No, no, there isn't. There's  
2 certain -- within the software, you can purchase  
3 different models, for instance: Hurricane models  
4 and earthquake models, severe thunder storm, wild  
5 fire. Different perils are -- and different  
6 regions around the world are licensed separately.

7 SENATOR PEADEN: Thank you.

8 THE CHAIRMAN: Senator Posey, you're  
9 recognized.

10 SENATOR POSEY: Thank you, Mr. Chairman.

11 Obviously, we've been having some global  
12 warming beginning with prior to the end of the last  
13 Ice Age. Do you find that the criteria in the  
14 Pacific and Atlantic are similar, or are they going  
15 in opposite directions? You know, do you see any  
16 relationships, common denominator between the two?

17 DR. DAILEY: Very good question. That's  
18 another subject of debate. But what I can say is  
19 that certain climate signals, for example, the ENSO  
20 system, the El Nino/La Nina cycle, which most  
21 people have heard of, is an example of a periodic  
22 signal similar to what I was talking about earlier  
23 within the Atlantic that affects worldwide weather.

24 And what some of the science indicates today  
25 is that ENSO can affect tropical activity in

1       opposite ways in the Atlantic and Pacific. And the  
2       connection then comes back to, what's the  
3       correlation? There seems to be a significant  
4       negative correlation between Atlantic and Pacific  
5       activity under ENSO conditions.

6               SENATOR POSEY: Can you-all put that in your  
7       equation? I mean, can you kind of track that?  
8       Does it have impact on ours? And we're running out  
9       of time. Maybe this is a more important  
10      question -- we'll just move on to the next one --  
11      do you have an incremental model based on  
12      mitigation?

13             Like if we had 20 percent of our state  
14      mitigated, the percentage of damage would go down  
15      30, 40, 50, 60, 70, 80, 90? I mean, I think we'd  
16      all like to know that. I think that's -- you know,  
17      could be an immediate total solution to our crisis  
18      if this state was hardened. And it's just so hard  
19      to get the public to grasp that and --

20             MR. LALONDE: Within the model -- within the  
21      certified model, there are options for more  
22      detailed information about the structure, if you  
23      know whether or not you have shutters on your  
24      house, whether you have hurricane straps or other  
25      mitigation factors, that information can be put

1 into the model. There are modifications to the  
2 vulnerability functions based on those features.

3 So whatever features you have, the impact of  
4 that on the relative loss cost is available from  
5 the model. That's one of the advantages of using a  
6 model. If you don't know what the impact of a  
7 certain mitigation device is, you can look at the  
8 model and say, well, what if I put it on that  
9 building, how much savings is there?

10 SENATOR POSEY: And we've kind of gone there,  
11 but we haven't got the big picture perspective  
12 statewide. And I'm just wondering if you've ever  
13 run a model and said, here, here's the difference  
14 if this state was 20 percent residential, was  
15 hardened 30, 40, 50, you know, just to the 2001  
16 building code level, John?

17 MR. ROLLINS: Senator Posey, that's a very  
18 good question, and mitigation efforts in Florida  
19 are ongoing on a number -- there are a number of  
20 prongs of attack we are engaged in in mitigating  
21 and hardening our homes in the state. And I know  
22 you're a leader in that area.

23 The comprehensive -- or the most comprehensive  
24 way to study that question would be to do sort of a  
25 dedicated study statewide and look at the results,



1 and the results would be very interactive.

2 So, for example, putting storm shutters on a  
3 house and building the roof shingles a different  
4 way in compliance with the Florida Building Code,  
5 or putting on hurricane straps, it's not simply an  
6 A plus B plus C type number. So the modeling of  
7 that -- for example, if the envelope is breached in  
8 the house, then all the great roof that you have in  
9 the world might not save it.

10 So there's a lot of engineering interaction  
11 there. AIR is a leader in studying that. However,  
12 I'd also point you to the state-funded study that  
13 has been done on that in past five years.

14 Now, that study will be updated this year.  
15 Unfortunately, we offered to do that, and we're not  
16 contracted to do it, but it will be updated this  
17 year and it will be interesting to see what level  
18 of interaction persists and what the -- sort of the  
19 overall numbers look like given the now current  
20 state of the science, which as Mr. Lalonde's answer  
21 a moment ago said, it has a lot to do with that new  
22 data, that 2004-'05 hurricane data which has been  
23 collected and analyzed to sort of validate the  
24 ability of the model to discern mitigation  
25 features.

1           SENATOR POSEY: But you're not aware that, for  
2           the good of the order, we've ever run an  
3           incremental mitigation impact?

4           THE CHAIRMAN: Senator, I'm going to have  
5           to --

6           SENATOR POSEY: Yes, I'm sorry.

7           MR. ROLLINS: AIR has not produced a -- you  
8           know, sort of a comprehensive statewide study which  
9           would track exactly that that you have might have  
10          seen in the public domain. Is that correct?

11          MR. LALONDE: Not a publicly-available study,  
12          no. We may have done some such work for clients  
13          using our model.

14          THE CHAIRMAN: Mr. Lalonde and Members, thank  
15          you. We have reached -- we're going to have to  
16          wrap up. But I think you had heard from Senator  
17          Posey earlier, as the Chair of the Banking and  
18          Insurance Committee, I think it's highly likely  
19          that we will be inviting people to come back and  
20          continue to visit with us on the matter.

21          Let me just give you a quick take on where  
22          we're at, Members, because we have got less than  
23          two minutes to go. The time that the Select  
24          Committee was established, we've had these four  
25          meetings in the midst of what was already scheduled

1 committee weeks, and I think the importance that  
2 President Pruitt has shown to this is to actually  
3 cancel other committee meetings so that we could  
4 have this time.

5 And we've had five companies visit with us:  
6 The Office of Insurance Regulation, an outside  
7 consumer expert, modeling experts, this company  
8 here today, and our own modeling commission on  
9 reinsurance.

10 What we will be -- the Chair and I will be  
11 asking the President today is for time when we can  
12 gather to talk about our recommendations to the  
13 Legislature, to himself personally, to pass along  
14 to the substantive committees for the session.

15 It is certainly our desire that he would  
16 provide us with that time as early as possible. If  
17 he has any other methodology by which we will  
18 collect that, those recommendations, I'm not aware  
19 of it; but I would inform you of that, because it's  
20 our desire that we would try to take all that we  
21 have been hearing and provide that back to him in  
22 recommendations so that they can, in some way, be  
23 put to use this very legislative session. And  
24 that's obviously been the objective that he had  
25 when he created us.

1           So with that, Members, you will be hearing  
2           from the Chair and I as to the going-forward point  
3           from here and to our best process for collecting  
4           those recommendations for the session.

5           With that and with time expiring, Senator  
6           Storms moves to rise. Thank you, Members.

7           (Meeting adjourned at 11:45 a.m.)  
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CHRISTI K. COLE  
Notary Public/Certified  
Professional Reporter  
TALLAHASSEE, FL 32308  
850-894-0828